



VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

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

Government of the Republic of the Philippines

August 26, 2021; 9:00 AM
Cooperative Building, VSU Market, Visca, Baybay City,
Leyte

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

Bid – A signed offer or proposal to undertake a contract submitted by a bidder in response to and in consonance with the requirements of the bidding documents. Also referred to as *Proposal* and *Tender*. (2016 revised IRR, Section 5[c])

Bidder – Refers to a contractor, manufacturer, supplier, distributor and/or consultant who submits a bid in response to the requirements of the Bidding Documents. (2016 revised IRR, Section 5[d])

Bidding Documents – The documents issued by the Procuring Entity as the bases for bids, furnishing all information necessary for a prospective bidder to prepare a bid for the Goods, Infrastructure Projects, and/or Consulting Services required by the Procuring Entity. (2016 revised IRR, Section 5[e])

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

Consulting Services – Refer to services for Infrastructure Projects and other types of projects or activities of the GOP requiring adequate external technical and professional expertise that are beyond the capability and/or capacity of the GOP to undertake such as, but not limited to: (i) advisory and review services; (ii) pre-investment or feasibility studies; (iii) design; (iv) construction supervision; (v) management and related services; and (vi) other technical services or special studies. (2016 revised IRR, Section 5[i])

CDA - Cooperative Development Authority.

Contract – Refers to the agreement entered into between the Procuring Entity and the Supplier or Manufacturer or Distributor or Service Provider for procurement of Goods and Services; Contractor for Procurement of Infrastructure Projects; or Consultant or Consulting Firm for Procurement of Consulting Services; as the case may be, as recorded in the Contract Form signed by the parties, including all attachments and appendices thereto and all documents incorporated by reference therein.

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.

DDP – Refers to the quoted price of the Goods, which means “delivered duty paid.”

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – “Free Carrier” shipping point.

FOB – “Free on Board” shipping point.

Foreign-funded Procurement or Foreign-Assisted Project– Refers to procurement whose funding source is from a foreign government, foreign or international financing institution as specified in the Treaty or International or Executive Agreement. (2016 revised IRR, Section 5[b]).

Framework Agreement – Refers to a written agreement between a procuring entity and a supplier or service provider that identifies the terms and conditions, under which specific purchases, otherwise known as “Call-Offs,” are made for the duration of the agreement. It is in the nature of an option contract between the procuring entity and the bidder(s) granting the procuring entity the option to either place an order for any of the goods or services identified in the Framework Agreement List or not buy at all, within a minimum period of one (1) year to a maximum period of three (3) years. (GPPB Resolution No. 27-2019)

STFI – Government Financial Institution.

GOCC – Government-owned and/or –controlled corporation.

Goods – Refer to all items, supplies, materials and general support services, except Consulting Services and Infrastructure Projects, which may be needed in the transaction of public businesses or in the pursuit of any government undertaking, project or activity, whether in the nature of equipment, furniture, stationery, materials for construction, or personal property of any kind, including non-personal or contractual services such as the repair and maintenance of equipment and furniture, as well as trucking, hauling, janitorial, security, and related or analogous services, as well as procurement of materials and supplies provided by the Procuring Entity for such services. The term “related” or “analogous services” shall include, but is not limited to, lease or purchase of office space, media advertisements, health maintenance services, and other services essential to the operation of the Procuring Entity. (2016 revised IRR, Section 5[r])

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national

buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

Procurement Project – refers to a specific or identified procurement covering goods, infrastructure project or consulting services. A Procurement Project shall be described, detailed, and scheduled in the Project Procurement Management Plan prepared by the agency which shall be consolidated in the procuring entity's Annual Procurement Plan. (GPPB Circular No. 06-2019 dated 17 July 2019)

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

Supplier – refers to a citizen, or any corporate body or commercial company duly organized and registered under the laws where it is established, habitually established in business and engaged in the manufacture or sale of the merchandise or performance of the general services covered by his bid. (Item 3.8 of GPPB Resolution No. 13-2019, dated 23 May 2019). Supplier as used in these Bidding Documents may likewise refer to a distributor, manufacturer, contractor, or consultant.

UN – United Nations.

Section I. Invitation to Bid



INVITATION TO BID FOR SUPPLY AND DELIVERY OF OFFICE AND I.T. EQUIPMENT & SUPPLIES

- The Visayas State University through the *GF, STF, TF 2021* intends to apply the sum of *Three Million Eighteen Thousand Two Hundred Seventeen Pesos (Php 3,018,217.00)* being the ABC to payments under the contract for *Supply and Delivery of Office and I.T. Equipment & Supplies (GOODS-21-40)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

The *Visayas State University – Main Campus*, through the *GF, STF, TF 2021* intends to apply the following ABC per item to payments under the contract for each item, to wit:

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 (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	1KM Single Core FTTH Drop Cable	spool	10	3,700.00	37,000.00
	☐1 Kilometer FTTH Drop Cable				
	☐Single-Core outdoor				
	☐GS657				
	☐3 steel wire messenger				
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 @ 36 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				
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)	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: 240GB				
	☑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				
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,				
	☑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				
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				
	☑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)				

	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)				
	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				
	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 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	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)				
	7Automatic 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	Generic 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	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)	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	sets	2	3,000.00	6,000.00
45	HP, Laserjet Toner Cartridge, CF401A, Cyan	pc	1	5,000.00	5,000.00
46	HP, Laserjet Toner Cartridge, CF403A, Magenta	pc	1	5,000.00	5,000.00
47	Ink HP GT51 Black (K)	btls	4	300.00	1,200.00
48	Ink HP GT52 Cyan (C)	btls	4	300.00	1,200.00
49	Ink HP GT52 Magenta (M)	btls	4	300.00	1,200.00
50	Ink HP GT52 Yellow (Y)	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	btls	1	1,700.00	1,700.00
56	Ink, Epson Premium Dye Ink, 1 liter, magenta	btls	1	1,700.00	1,700.00
57	Ink, Epson Premium Dye Ink, 1 liter, yellow	btls	1	1,700.00	1,700.00
58	Ink, Epson T522, (B, Y, M, C)	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				
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: 1 year with after sales service"				
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				
	◀RouterOS 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)				
	Video & Sound: 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port, 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port, 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-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
	SoC Type (processor): Broadcom BCM2711, 64-bit ARM Cortex-A72 (ARMv8), Quad-core, 28nm				
	core type: cortex-A72 64-bit (ARMv8)				
	No. of Cores: quad-core				
	GPU: VideoCore VI				
	Multimedia: H.265 (4Kp60 decode); H.264 (1080p60 decode, 1080p30 encode); OpenGL ES, 3.0 graphics				
	CPU Clock: 1.5 GHz				
	Memory/ OS Storage: micro SD				
	Ram LPDDR4: 8GB				
	Ethernet: Gigabit Ethernet				
	USB Port: 2 x micro HDMI support Dual Display				
	wifi: 802.11 b/g/n/ac (2.4GHz + 5GHz & Shielded)				
	Bluetooth: 5.0 + BLE (Shielded)				
	antenna				
	PCB Antenna				
	GPIO				
	40 pins(fully backwards- compatible with Previous boards)				
	Operating System: Raspbian				
	5V Via USB Type C (up to 3A), 5V Via GPIO header (upto 3A), Power over Ethernet, Requires PoE HAT				
	Enclosure				
	Clear Case with Fan				
	Included Components				
	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
	☑30 Liters capacity				
	☑Grill and convection				
	☑electronic control				
	☑dual wave system				
	☑13 power levels				
	☑900W				
	☑Non-Inverter				
77	Mikrotik Router (Same as existing fleet of VSU)	unit	1	5,500.00	5,500.00
	☑CPU Nominal Frequency: 880MHz				
	☑CPU Core Count: 2				
	☑Size of Ram: 256 MB				
	☑10/100/1000 Ethernet Ports: 5 ports				
	☑PoE In: Yes				
	☑Supported Input Voltage: 8 - 30 V				
	☑PCB Temperature Monitor: Yes				
	☑Voltage Monitor: Yes				
	☑USB: Yes, Type A 2.0				
	☑Hardware Encryption: Yes				
	☑Dude Server Package Support: Yes				
	☑License Level: 4				
	☑Operation Sysyem: RouterOS				
	☑CPU: MT7612A				
	☑With hotspot capability				
78	Mini Voltage Regulator	pcs	2	200.00	400.00
	☑Input Voltage: 3.2V ~ 40V				
	☑Output Voltage: 1.25V ~ 35V				
	☑Output Current: 3A (maximum)				
	☑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
	☑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				
80	Multiplexer (MUX) Breakout (8 Channel)	pcs	3	900.00	2,700.00
	☑Operating Voltage: 1.65V - 5.5V				
	☑Operating Temperature: -40 - 85° C				
	☑I2C Address: 0x70 (default) up to 0x77				

	10x Qwiic Connector:8x Channels				
	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
	Size: 20x20mm				
	Thickness: 2mm'				
	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				
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	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	1,000.00	1,000.00
	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	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	sets	2	6,000.00	12,000.00
	■ 70dB high gain triband signal booster, with AGC gain control function				
	■ Support 850MHz + 900MHz + 1800MHz (band 3/5/8)				
	■ Improving the voice calls and data transmission for 2G/3G/4G network				
	■ Extensive coverage: 300-600 square meters (barrier-free)				
	■ Compatible with multiple local operators, suitable for multiple phone users				
	■ HD LCD, display real-time signal status, lower radiation				
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.				
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				
98	UPS, at least 500 w	piece	1	2,550.00	2,550.00
99	UPS, at least 800 watts, 4 hours 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.				
	■ 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	300.00	900.00
	☑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				
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				
	☑Beamforming Supported				
	☑Maximum Power Consumption 10.5W				
	☑Supported Voltage Range 44 to 57VDC				
	☑TX Power				
	☑2.4 GHz				
	☑5 GHz				
	☑23 dBm				
	☑26 dBm				
	☑MIMO				
	☑2.4 GHz				
	☑5 GHz				
	☑2x2				
	☑4x4				
	☑Radio Rates				
	☑2.4 GHz				
	☑5 GHz				
	☑300 Mbps				
	☑1733 Mbps				
	☑Antennas				
	☑2.4 GHz				
	☑5 GHz				
	☑(2) Single-Port, Single-Polarity Antennas, 2.8 dBi each				
	☑(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				
	☑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 (must be compatible with item #109-110)	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
	☑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				
	◀ Back Focal Length: 7.53mm				
110	Camera Module, 8MP, Pi NoIR v2	set	3	2,200.00	6,600.00
	☑ 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				
	☑ Included Components: Compatible ribbon cable (150mm CSI camera cable), Blue filter				
111	RJ-45 Volition U.S. standard Faceplate face plate 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 •				
	☑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				
113	RJ-45 Modular Connector (AMP)	pcs	40	20.00	800.00
114	3D printer	set	1	14,500.00	14,500.00
	☑Extruder Compatibility: CR10 (MK8 Hotend)				
	☑Printing Technology: FFF (Fused Filament Fabrication)				
	☑Filament Diameter: 1.75mm				
	☑Layer Resolution: 100µm				
	☑Max. Print Speed: 180mm/sec				
	☑Precision: ±0.1mm				
	☑Extruder Quantity: Single				
	☑Max Nozzle Temp.: 255°C				
	☑Heated Build Plate (Heated Bed): Yes				
	☑Max Bed Temp: 110°C				
	☑Bed Type: Glass				
	☑Leveling: Automatic				
	☑Build Volume X: 220mm				
	☑Build Volume Y: 220mm				
	☑Build Volume Z: 250mm				
	☑Supported Materials: ABS, FLEX, PET, PLA, TPU,				
	☑File Format: G-Code, OBJ, STL				
	☑Working Mode: Offline (SD Card/USB Stick), Online (USB)				
	☑Nozzle diameter: 0.4mm can be in 0.2, 0.3mm				
	☑Max Traveling Speed: 180mm/s				

	☑Slicer: Cura (Works with Simplify3D not included)				
	☑Operating System: Windows/Mac/Linux				
	☑Chassis: Imported V-Slot Aluminum Bearings				
	☑Electrical Input: AC 100-265V 50-60Hz				
	☑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)				
	☑Mass: 1 KG (approximately 2.20 lbs) Spool				
	☑Filament Diameter: 1.75mm (Dimensional Accuracy +/- 0.03mm)				
	☑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 (±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	pcs	20	570.00	11,400.00
119	Ink Cartridge, HP680, tri color	pcs	20	570.00	11,400.00
120	Ink Cartridge, HP704, black	pcs	40	570.00	22,800.00
121	Ink Cartridge, HP704, tri color	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	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				
126	DSLR Camera (24.2 MP, APS-C with 18-55mm lens)	unit	2	50,000.00	100,000.00
	☑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 NFC EF-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 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				
	☑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

Bids received in excess of the ABC for each item shall be automatically rejected at bid opening.

2. The *Visayas State University – Main Campus* now invites bids for the above Procurement Project. Delivery of the Goods is required by *sixty (60) calendar days upon receipt of Notice to Proceed (NTP)*. Bidders should have completed, within *two (2) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary “*pass/fail*” criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA No. 5183.

4. Prospective Bidders may obtain further information from *Visayas State University* and inspect the Bidding Documents at the address given below during *Mondays - Fridays (8:00 AM-5:00 PM)*.
5. A complete set of Bidding Documents may be acquired by interested Bidders on *06 August – 26 August 2021 until 8:30 AM* 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.
6. The *Visayas State University – Main Campus* will hold a Pre-Bid Conference on *August 13, 2021; 9:00 AM at the Cooperative Building, VSU Market, Visca, Baybay City, Leyte* and/or through video conferencing or webcasting *via Google Meet*, which shall be open to prospective bidders.

Bidders are advised to contact the BAC Secretariat before the scheduled Pre-Bid Conference for the Google Meet link.

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below, (ii) online or electronic submission as indicated below, or (iii) both on or before *26 August 2021 until 8:30 AM*. Late bids shall not be accepted.

8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB** Clause 14.

9. Bid opening shall be on *26 August 2021; 9:00 AM* at the *Cooperative Building, VSU Market, Visca, Baybay City, Leyte* and/or via *Google Meet*. Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

Bidders are advised to contact the BAC Secretariat before the scheduled Bid Opening for the Google Meet link.

10. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through couriers. A proof (e.g. courier receipt, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.
11. The *Visayas State University* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
12. For further information, please refer to:

Ms. Jessamine C. Ecleo (BAC Secretariat)
Office of the Head for Procurement,
VSU-Main, Visca, Baybay City, Leyte
Mobile: 053 565 0600 local 1093 or 0998 555 0106
Email: jessamine.ecleo@vsu.edu.ph

or

Mr. Toni Marc L. Dargantes (BAC Secretariat)
Office of the VP for Planning, Resource Generation & Auxiliary Services
VSU-Main, Visca, Baybay City, Leyte
Mobile: 053 565 0600 local 1004 or 0977 7186594
Email: tmdargantes@vsu.edu.ph

13. You may visit the following websites:

For downloading of Bidding Documents: *<https://www.vsu.edu.ph/philgeps-opportunities>*

August 5, 2021

DILBERTO O. FERRAREN
Chairperson, VSU BAC

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Visayas State University*, wishes to receive Bids for the *Supply and Delivery of Office and I.T. Equipment & Supplies*, with identification number *GOODS-21-40*.

The Procurement Project (referred to herein as “Project”) is composed of *140 items*, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for *2021* in the amount of *Three Million Eighteen Thousand Two Hundred Seventeen Pesos (PhP 3,018,217.00)*.

2.2. The source of funding is: NGA, the General Appropriations Act (GAA), Special Appropriations, and Trust Fund.

3. Bidding Requirements

The Bidding for the Project shall be governed by all the provisions of RA No. 9184 and its 2016 revised IRR, including its Generic Procurement Manuals and associated policies, rules and regulations as the primary source thereof, while the herein clauses shall serve as the secondary source thereof.

Any amendments made to the IRR and other GPPB issuances shall be applicable only to the ongoing posting, advertisement, or **IB** by the BAC through the issuance of a supplemental or bid bulletin.

The Bidder, by the act of submitting its Bid, shall be deemed to have verified and accepted the general requirements of this Project, including other factors that may affect the cost, duration and execution or implementation of the contract, project, or work and examine all instructions, forms, terms, and project requirements in the Bidding Documents.

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

The Procuring Entity, as well as the Bidders and Suppliers, shall observe the highest standard of ethics during the procurement and execution of the contract. They or through an agent shall not engage in corrupt, fraudulent, collusive, coercive, and obstructive practices defined under Annex “I” of the 2016 revised IRR of RA No. 9184 or other integrity violations in competing for the Project.

5. Eligible Bidders

5.1. Only Bids of Bidders found to be legally, technically, and financially capable will be evaluated.

- 5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.
- 5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:

Bidders should comply with the following requirements:

- i. Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%)* of the ABC for this Project; and
 - ii. The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.
- 5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

There is no restriction on the origin of goods other than those prohibited by a decision of the UN Security Council taken under Chapter VII of the Charter of the UN, subject to Domestic Preference requirements under **ITB** Clause 18.

7. Subcontracts

- 7.1. The Bidder may subcontract portions of the Project to the extent allowed by the Procuring Entity as stated herein, but in no case more than twenty percent (20%) of the Project.

The Procuring Entity has prescribed that: **Subcontracting is not allowed.**

8. Pre-Bid Conference

The Procuring Entity will hold a pre-bid conference for this Project on the specified date and time and either at its physical address and/or through videoconferencing/webcasting as indicated in paragraph 6 of the **IB**.

9. Clarification and Amendment of Bidding Documents

Prospective bidders may request for clarification on and/or interpretation of any part of the Bidding Documents. Such requests must be in writing and received by the Procuring Entity, either at its given address or through electronic mail indicated in the **IB**, at least ten (10) calendar days before the deadline set for the submission and receipt of Bids.

10. Documents comprising the Bid: Eligibility and Technical Components

- 10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within **two (2 years)** prior to the deadline for the submission and receipt of bids.
- 10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

- 11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.
- 11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.
- 11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.
- 11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

- 12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:
 - a. For Goods offered from within the Procuring Entity's country:
 - i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);
 - ii. The cost of all customs duties and sales and other taxes already paid or payable;

- iii. The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and
 - iv. The price of other (incidental) services, if any, listed in e.
- b. For Goods offered from abroad:
 - i. Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.
 - ii. The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications)**.

13. Bid and Payment Currencies

13.1. For Goods that the Bidder will supply from outside the Philippines, the bid prices may be quoted in the local currency or tradeable currency accepted by the BSP at the discretion of the Bidder. However, for purposes of bid evaluation, Bids denominated in foreign currencies, shall be converted to Philippine currency based on the exchange rate as published in the BSP reference rate bulletin on the day of the bid opening.

13.2. Payment of the contract price shall be made in: Philippine Pesos.

14. Bid Security

14.1. The Bidder shall submit a Bid Securing Declaration or any form of Bid Security in the amount indicated in the **BDS**, which shall be not less than the percentage of the ABC in accordance with the schedule in the **BDS**.

14.2. The Bid and bid security shall be valid until *December 2021*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

Each Bidder shall submit one copy of the first and second components of its Bid.

The Procuring Entity may request additional hard copies and/or electronic copies of the Bid. However, failure of the Bidders to comply with the said request shall not be a ground for disqualification.

If the Procuring Entity allows the submission of bids through online submission or any other electronic means, the Bidder shall submit an electronic copy of its Bid, which must be digitally signed. An electronic copy that cannot be opened or is corrupted shall be considered non-responsive and, thus, automatically disqualified.

16. Deadline for Submission of Bids

- 16.1. The Bidders shall submit on the specified date and time and either at its physical address or through online submission as indicated in paragraph 7 of the **IB**.

17. Opening and Preliminary Examination of Bids

- 17.1. The BAC shall open the Bids in public at the time, on the date, and at the place specified in paragraph 9 of the **IB**. The Bidders' representatives who are present shall sign a register evidencing their attendance. In case videoconferencing, webcasting or other similar technologies will be used, attendance of participants shall likewise be recorded by the BAC Secretariat.

In case the Bids cannot be opened as scheduled due to justifiable reasons, the rescheduling requirements under Section 29 of the 2016 revised IRR of RA No. 9184 shall prevail.

- 17.2. The preliminary examination of bids shall be governed by Section 30 of the 2016 revised IRR of RA No. 9184.

18. Domestic Preference

- 18.1. The Procuring Entity will grant a margin of preference for the purpose of comparison of Bids in accordance with Section 43.1.2 of the 2016 revised IRR of RA No. 9184.

19. Detailed Evaluation and Comparison of Bids

- 19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.
- 19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.
- 19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.
- 19.4. The Project shall be awarded as follows: One Project having several items, which shall be awarded as separate contracts per item.

- 19.5. Except for bidders submitting a committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation, all Bids must include the NFCC computation pursuant to Section 23.4.1.4 of the 2016 revised IRR of RA No. 9184, which must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder. For bidders submitting the committed Line of Credit, it must be at least equal to ten percent (10%) of the ABCs for all the lots or items participated in by the prospective Bidder.

20. Post-Qualification

- 20.1. Within a non-extendible period of five (5) calendar days from receipt by the Bidder of the notice from the BAC that it submitted the Lowest Calculated Bid, the Bidder shall submit its latest income and business tax returns filed and paid through the BIR Electronic Filing and Payment System (eFPS) and other appropriate licenses and permits required by law and stated in the **BDS**.

21. Signing of the Contract

- 21.1. The documents required in Section 37.2 of the 2016 revised IRR of RA No. 9184 shall form part of the Contract. Additional Contract documents are indicated in the **BDS**.

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause																																																	
5.3	For this purpose, contracts similar to the Project shall be: a. <i>Office Equipment, I.T. Equipment and/or Supplies, combination of the foregoing</i> b. completed within two (2) years prior to the deadline for the submission and receipt of bids.																																																
7.1	Subcontracting is not allowed.																																																
12	The price of the Goods shall be quoted <i>DDP VSU Main, Visca, Baybay City, Leyte</i> or the applicable International Commercial Terms (INCOTERMS) for this Project.																																																
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: a. The amount of not less than <i>Sixty Thousand Three Hundred Sixty-Four and 34/100 Pesos (PhP 60,364.34) or two percent (2%) of ABC</i> , if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than <i>One Hundred Fifty Thousand Nine Hundred Ten and 85/100 Pesos (PhP 150,910.85) or five percent (5%) of ABC</i> if bid security is in Surety Bond.																																																
19.3	<table><tr><th>Item No.</th><th>Description</th><th>Total ABC</th></tr><tr><td>1</td><td>14" LAPTOP</td><td>300,000.00</td></tr><tr><td>2</td><td>1KM Single Core FTTH Drop Cable</td><td>37,000.00</td></tr><tr><td>3</td><td>Air Condition, Split type, Inverter, 2.0 HP</td><td>55,000.00</td></tr><tr><td>4</td><td>Air Conditioner, 1.5HP, Split Type, Wall Mounted, Deluxe Inverter</td><td>35,000.00</td></tr><tr><td>5</td><td>All-in-One Ink Tank Printer Wi-Fi Duplex with ADF</td><td>105,000.00</td></tr><tr><td>6</td><td>Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)</td><td>2,000.00</td></tr><tr><td>7</td><td>Assorted Dupont and Jumper Wires Cables</td><td>3,000.00</td></tr><tr><td>8</td><td>Automatic Voltage Regulatory (AVR), 1500W, heavy duty</td><td>10,000.00</td></tr><tr><td>9</td><td>AVR, 500W (IC Controlled)</td><td>500.00</td></tr><tr><td>10</td><td>Blender and Mixer</td><td>6,500.00</td></tr><tr><td>11</td><td>Computer HD Webcam</td><td>3,000.00</td></tr><tr><td>12</td><td>Computer Keyboard USB</td><td>2,800.00</td></tr><tr><td>13</td><td>Computer Motherboard</td><td>16,000.00</td></tr><tr><td>14</td><td>Computer Printer, All-in-One/Multifunction Colored-Ink Tank</td><td>99,000.00</td></tr><tr><td>y15</td><td>CPU Cooler, Fan and Heatsink</td><td>1,500.00</td></tr></table>	Item No.	Description	Total ABC	1	14" LAPTOP	300,000.00	2	1KM Single Core FTTH Drop Cable	37,000.00	3	Air Condition, Split type, Inverter, 2.0 HP	55,000.00	4	Air Conditioner, 1.5HP, Split Type, Wall Mounted, Deluxe Inverter	35,000.00	5	All-in-One Ink Tank Printer Wi-Fi Duplex with ADF	105,000.00	6	Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)	2,000.00	7	Assorted Dupont and Jumper Wires Cables	3,000.00	8	Automatic Voltage Regulatory (AVR), 1500W, heavy duty	10,000.00	9	AVR, 500W (IC Controlled)	500.00	10	Blender and Mixer	6,500.00	11	Computer HD Webcam	3,000.00	12	Computer Keyboard USB	2,800.00	13	Computer Motherboard	16,000.00	14	Computer Printer, All-in-One/Multifunction Colored-Ink Tank	99,000.00	y15	CPU Cooler, Fan and Heatsink	1,500.00
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16	Crimper for RJ 45, Pass Through for CAT5, CAT6 UTP Cable	9,000.00
17	Desktop Computer (i3)	30,000.00
18	Desktop Computer (i5)	45,000.00
19	Desktop Computer (i7 Branded)	225,000.00
20	Desktop Computer, All-in-one (AIO)	52,000.00
21	Desktop Microphone	3,900.00
22	Digital Copier	60,000.00
23	EPSON INK btl 664 black	2,500.00
24	Epson L6160 Black 001 Ink, Genuine	1,650.00
25	Epson L6160 Cyan 001 Ink, Genuine	1,650.00
26	Epson L6160 Magenta 001 Ink, Genuine	1,650.00
27	External Hard Disk Drive (Portable, 1TB), USB 3.1	24,000.00
28	External Hard Disk Drive (Portable, 1TB), USB 3.1	3,800.00
29	External Hard Disk Drive (Portable, 2TB), USB 3.1	22,000.00
30	External Hard Disk Drive (Portable, 4TB), USB 3.1	27,000.00
31	External Solid State Drive, (Portable, 500GB), USB 3.1	12,000.00
32	Fiber Optic FTTH Tool Kit with Optical Power Meter	4,982.00
33	Fiber to Copper Media Converter Gigabit Full Duplex Pair A/B Single Mode 25KM	18,000.00
34	Flash Drive, 128GB, USB 3.0	6,000.00
35	Flash Drive, at least 32GB USB 3.0	4,800.00
36	Floor Standing Mounted Airconditioner	80,000.00
37	FTTH S Type Fiber Fixing Clamp for FTTH Drop cable	2,720.00
38	FTTH SC connector butterfly type bundle 10 pcs per pack	3,000.00
39	Generic Power supply, 700 watts	2,700.00
40	Headset (Wired), Generic Over the Ear with mic	500.00
41	Hikvision Camera (5 units Dome Camera x 3,800.00), Compatible with the existing fleet	19,000.00
42	Hikvision NVR 8 Channel with 8 PoE ports with IP camera (POE) (Compatible with the existing fleet)	13,000.00
43	Hikvision PTZ Camera DS-2DE4220W-AE, (Compatible with the existing fleet)	19,500.00
44	HP Officejet 7612 ink	6,000.00
45	HP, Laserjet Toner Cartridge, CF401A, Cyan	5,000.00
46	HP, Laserjet Toner Cartridge, CF403A, Magenta	5,000.00
47	Ink HP GT51 Black (K)	1,200.00
48	Ink HP GT52 Cyan (C)	1,200.00
49	Ink HP GT52 Magenta (M)	1,200.00
50	Ink HP GT52 Yellow (Y)	1,200.00
51	Ink, Epson 003,Genuine Black 65mL	2,100.00
52	Ink, EPSON 003,Genuine Cyan 65mL	2,100.00
53	Ink, EPSON 003,Genuine Magenta 65mL	2,100.00
54	Ink, EPSON 003,Genuine Yellow 65mL	2,800.00
55	Ink, Epson Premium Dye Ink, 1 liter, black	1,700.00

56	Ink, Epson Premium Dye Ink, 1 liter, magenta	1,700.00
57	Ink, Epson Premium Dye Ink, 1 liter, yellow	1,700.00
58	Ink, Epson T522, (B, Y, M, C)	12,000.00
59	Ink, Epson, genuine (C) T664, 70 ml	3,500.00
60	Ink, Epson, genuine (M) T664, 70 ml	5,250.00
61	Ink, Epson, genuine, (BK) T664, 70 ml	6,650.00
62	Ink, Epson, genuine, (Y) T664, 70 ml	3,500.00
63	Keyboard and Mouse Combo Bundle, USB Powered	600.00
64	Laminator Machine, A3	2,800.00
65	Laptop (Pentium Dual Core)	60,000.00
66	Laptop computer, i7, 16GB RAM	70,000.00
67	Laptop, 14" (i7)	60,000.00
68	LED Light, lens LED reflector and Reflector Collimator Cup	3,000.00
69	LTE Kit	142,860.00
70	LTE Modem, Home Prepaid Wifi, Open Line	2,500.00
71	Memory, DDR4 (16GB)	4,000.00
72	Micro Card Memory Shield Module	1,500.00
73	Microcontroller, System on a Chip (SOC) computer, 4GB RAM	12,000.00
74	Microcontroller, System on a Chip (SOC) Computer, 8GB RAM	7,000.00
75	Microsoft Office Home & Student 2019, 1 Perpetual License, Medialess	15,000.00
76	Microwave Oven, Digital, Non-Inverter, 13 Power Levels	14,000.00
77	Mikrotik Router (Same as existing fleet of VSU)	5,500.00
78	Mini Voltage Regulator	400.00
79	Mouse, Wired, Optical, USB	2,100.00
80	Multiplexer (MUX) Breakout (8 Channel)	2,700.00
81	Nano Engraving PET Transmission Diffraction Grating Teaching spectral decomposition Precision component Detect	12,000.00
82	Network Switch, Unmanaged	15,000.00
83	Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)	11,000.00
84	Qwiic Cable	880.00
85	Refillable Ink Cartridge	1,500.00
86	Refrigerator- at least 6.0 cu.ft. (Two-door)	14,990.00
87	RJ 45, Passthrough, CAT6	44,000.00
88	SD card 512GB	6,000.00
89	SD Card, 128 GB	3,000.00
90	Silicon Wire, Flexible, 28 AWG	2,000.00
91	Soldering Iron Kit, with carrying case	1,000.00
92	Speaker, for PC, 2.1 (Speaker with Subwoofer)	2,540.00
93	Tower Fan	30,000.00
94	Triad Spectroscopy Sensor	15,000.00
95	Triband Mobile Signal Repeater, Cellphone Signal Booster Amplifier	12,000.00
96	UPS (Computer)	10,000.00

97	UPS, at least 1000 VA	9,000.00
98	UPS, at least 500 w	2,550.00
99	UPS, at least 800 watts, 4 hours charging time	15,000.00
100	UTP Cable (300 meters), CAT 6 23 AWG	246,500.00
101	Water Dispenser, Cabinet type	10,000.00
102	Web Camera for Laptop and Desktop	1,440.00
103	Web Camera for PC	7,500.00
104	Wi-Fi Module	900.00
105	Wire Connector	2,000.00
106	Wireless Access Point	29,700.00
107	Wireless Optical Mouse	10,000.00
108	3.5 inch TFT Touch Screen for raspberry pi (must be compatible with item #109-110)	2,000.00
109	Camera Module + 6mm lens	17,400.00
110	Camera Module, 8MP, Pi NoIR v2	6,600.00
111	RJ-45 Volition U.S. standard Faceplate face plate panel double port 2-Port IO Information Outlet plate for compatibility with existing fleet (must be compatible with item #112-113)	5,250.00
112	Volition Cat6 8-Way Female Tool-less IO Information Outlet RJ45 Connector Keystone Mount	14,000.00
113	RJ-45 Modular Connector (AMP)	800.00
114	3D printer	14,500.00
115	3D Printer Filament Set (for 3D Printer in Item 114)	7,500.00
116	Digital Multimeter	7,000.00
117	Ink, Refill, UNIKIT for CIS black, yellow, cyan, magenta	3,160.00
	<i>Rebidding (from GOODS-21-28)</i>	
118	Ink Cartridge, HP680, black	11,400.00
119	Ink Cartridge, HP680, tri color	11,400.00
120	Ink Cartridge, HP704, black	22,800.00
121	Ink Cartridge, HP704, tri color	22,800.00
122	Computer Printer 3-in-1 with CIS Filled with Inks	20,000.00
123	Desktop Computer (i7 Branded)	75,000.00
124	Projector Screen	15,000.00
125	Laptop, 14" (i7)	120,000.00
126	DSLR Camera (24.2 MP, APS-C with 18-55mm lens)	100,000.00
127	CCTV IP Camera	17,500.00
128	UTP Cable Wire, CAT5E, 4 pairs	2,500.00
129	SD Card, 128 GB	1,500.00
130	Computer Printer, All-in-One / Multifunction Colored-Ink Tank	11,000.00
131	Tablet, 7.9 Inch (Wifi only)	80,000.00
132	Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)	2,000.00
133	Printer All-in-One System With Wi-fi, ADF and Ink Tank System	14,695.00
134	Heavy Duty Combo Binding Machine	14,500.00

	135	Paper Shredder Machine, Heavy Duty	6,000.00
	136	All-in-One Printer with ADF	21,000.00
	137	Desktop Microphone	1,300.00
		Rebidding (from GOODS-21-33)	
	138	Blank DVD+RW 8x 4.7Gb w/indiv case	2,500.00
	139	HP Ink Cartridge 678 Black	2,700.00
	140	HP Ink Cartridge 678 Tricolor	5,400.00
20.2	In case the PhilGEPS Platinum Certificate of Registration is not available during bid submission, it shall be submitted as a post-qualification requirement, in accordance with Section 34.2 of the 2016 Revised IRR of R.A. 9184.		
21.2	Not Applicable.		

Section IV. General Conditions of Contract

1. Scope of Contract

This Contract shall include all such items, although not specifically mentioned, that can be reasonably inferred as being required for its completion as if such items were expressly mentioned herein. All the provisions of RA No. 9184 and its 2016 revised IRR, including the Generic Procurement Manual, and associated issuances, constitute the primary source for the terms and conditions of the Contract, and thus, applicable in contract implementation. Herein clauses shall serve as the secondary source for the terms and conditions of the Contract.

This is without prejudice to Sections 74.1 and 74.2 of the 2016 revised IRR of RA No. 9184 allowing the GPPB to amend the IRR, which shall be applied to all procurement activities, the advertisement, posting, or invitation of which were issued after the effectivity of the said amendment.

Additional requirements for the completion of this Contract shall be provided in the **Special Conditions of Contract (SCC)**.

2. Advance Payment and Terms of Payment

2.1. Advance payment of the contract amount is provided under Annex “D” of the revised 2016 IRR of RA No. 9184.

2.2. The Procuring Entity is allowed to determine the terms of payment on the partial or staggered delivery of the Goods procured, provided such partial payment shall correspond to the value of the goods delivered and accepted in accordance with prevailing accounting and auditing rules and regulations. The terms of payment are indicated in the **SCC**.

3. Performance Security

Within ten (10) calendar days from receipt of the Notice of Award by the Bidder from the Procuring Entity but in no case later than prior to the signing of the Contract by both parties, the successful Bidder shall furnish the performance security in any of the forms prescribed in Section 39 of the 2016 revised IRR of RA No. 9184.

4. Inspection and Tests

The Procuring Entity or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Project specifications at no extra cost to the Procuring Entity in accordance with the Generic Procurement Manual. In addition to tests in the **SCC**, **Section IV (Technical Specifications)** shall specify what inspections and/or tests the Procuring Entity requires, and where they are to be conducted. The Procuring Entity shall notify the Supplier in writing, in a timely manner, of the identity of any representatives retained for these purposes.

All reasonable facilities and assistance for the inspection and testing of Goods, including access to drawings and production data, shall be provided by the Supplier to the authorized inspectors at no charge to the Procuring Entity.

5. Warranty

- 6.1. In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.
- 6.2. The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6. Liability of the Supplier

The Supplier's liability under this Contract shall be as provided by the laws of the Republic of the Philippines.

If the Supplier is a joint venture, all partners to the joint venture shall be jointly and severally liable to the Procuring Entity.

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	
1	<p>Delivery and Documents –</p> <p>For purposes of the Contract, “EXW,” “FOB,” “FCA,” “CIF,” “CIP,” “DDP” and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:</p> <p>The delivery terms applicable to this Contract are delivered <i>VSU Main Campus, Visca, Baybay City, Leyte</i>. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.</p> <p>Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).</p> <p>For purposes of this Clause the Procuring Entity’s Representative at the Project Site is:</p> <p style="text-align: center;"><i>Ms. Alicia M. Flores</i> <i>Head, Supply and Property Management Office,</i> <i>VSU-Main, Visca, Baybay City, Leyte</i> <i>Contact #: 053 565 0600 local 1082 / 0917 6341 430</i></p> <p>Incidental Services –</p> <p>The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:</p> <ol style="list-style-type: none"> a. performance or supervision of on-site assembly and/or start-up of the supplied Goods; b. furnishing of tools required for assembly and/or maintenance of the supplied Goods; c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods; d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and e. training of the Procuring Entity’s personnel, at the Supplier’s plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.
	<p>The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.</p>

	<p>Spare Parts –</p> <p>The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:</p> <ul style="list-style-type: none"> a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and b. in the event of termination of production of the spare parts: <ul style="list-style-type: none"> i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested. <p>The spare parts and other components required are listed in Section VI (Schedule of Requirements) and the cost thereof is included in the contract price.</p> <p>The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of 3 years.</p> <p>Spare parts or components shall be supplied as promptly as possible, but in any case, within 1 month of placing the order.</p>
	<p>Packaging –</p> <p>The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods’ final destination and the absence of heavy handling facilities at all points in transit.</p> <p>The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.</p> <p>The outer packaging must be clearly marked on at least four (4) sides as follows:</p> <p>Name of the Procuring Entity Name of the Supplier</p>

	<p>Contract Description</p> <p>Final Destination</p> <p>Gross weight</p> <p>Any special lifting instructions</p> <p>Any special handling instructions</p> <p>Any relevant HAZCHEM classifications</p>
	<p>A packaging list identifying the contents and quantities of the package is to be placed on an accessible point of the outer packaging if practical. If not practical the packaging list is to be placed inside the outer packaging but outside the secondary packaging.</p> <p>Transportation –</p> <p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP, or DDP, transport of the Goods to the port of destination or such other named place of destination in the Philippines, as shall be specified in this Contract, shall be arranged and paid for by the Supplier, and the cost thereof shall be included in the Contract Price.</p> <p>Where the Supplier is required under this Contract to transport the Goods to a specified place of destination within the Philippines, defined as the Project Site, transport to such place of destination in the Philippines, including insurance and storage, as shall be specified in this Contract, shall be arranged by the Supplier, and related costs shall be included in the contract price.</p>
	<p>Where the Supplier is required under Contract to deliver the Goods CIF, CIP or DDP, Goods are to be transported on carriers of Philippine registry. In the event that no carrier of Philippine registry is available, Goods may be shipped by a carrier which is not of Philippine registry provided that the Supplier obtains and presents to the Procuring Entity certification to this effect from the nearest Philippine consulate to the port of dispatch. In the event that carriers of Philippine registry are available but their schedule delays the Supplier in its performance of this Contract the period from when the Goods were first ready for shipment and the actual date of shipment the period of delay will be considered force majeure.</p> <p>The Procuring Entity accepts no liability for the damage of Goods during transit other than those prescribed by INCOTERMS for DDP deliveries. In the case of Goods supplied from within the Philippines or supplied by domestic Suppliers risk and title will not be deemed to have passed to the Procuring Entity until their receipt and final acceptance at the final destination.</p> <p>Intellectual Property Rights –</p> <p>The Supplier shall indemnify the Procuring Entity against all third-party claims of infringement of patent, trademark, or industrial design rights arising from use of the Goods or any part thereof.</p>

2.2	Payment of staggered deliveries shall be allowed. Payment term shall be “as per cost of the items delivered” subject to inspection and acceptance.
4	The inspections and tests that will be conducted will be specified by the appropriate technical team of VSU Main to confirm conformity to the contract specifications at no extra cost to VSU.

Section VI. Schedule of Requirements

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

Item No.	Description	Unit	QTY	Delivered, Weeks/Months
1	14" LAPTOP	units	5	All Items Should Be Delivered Within 60 Calendar Days From Receipt Of Notice To Proceed And Purchase Order
	Processor: Intel Core i7-1065G7 (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	1KM Single Core FTTH Drop Cable	spool	10	
	☐1 Kilometer FTTH Drop Cable			
	☐Single-Core outdoor			
	☐GS657			
	☐3 steel wire messenger			
3	Air Condition, Split type, Inverter, 2.0 HP	set	1	
	☐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	
	☐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	
	☐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
	■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
	■Wire type: 28 AWG (7 strands @ 36 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
	■Input: 220volts		
	■Power: 1500watts		
	■Output: 110-220 volts		
	■Range voltage 120v-220 volts		
	■Servo motor controlled		
9	AVR, 500W (IC Controlled)	unit	1
	■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	
	☑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			
11	Computer HD Webcam	pcs	3	
	☑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	
	☑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	
	☑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	
	☑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
	☑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
	☑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)	set	1
	☑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: 240GB		
	☑Keyboard and Mouse Combo		
	☑Casing with Power Supply		

	<ul style="list-style-type: none"> 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, 		
	<ul style="list-style-type: none"> Operating System: Genuine Windows 10 Home (OEM) 		
	<ul style="list-style-type: none"> AVR: 500W IC controlled 		
18	Desktop Computer (i5)	unit	1
	<ul style="list-style-type: none"> Processor: 		
	<ul style="list-style-type: none"> Intel Core i5 9400F or higher 		
	<ul style="list-style-type: none"> Motherboard: 		
	<ul style="list-style-type: none"> Intel H310 Chipset 		
	<ul style="list-style-type: none"> Anti-Sulfur Resistors Design 		
	<ul style="list-style-type: none"> Gaming LAN with Bandwidth Management 		
	<ul style="list-style-type: none"> Memory: 		
	<ul style="list-style-type: none"> 16GB (2x8) DDR4 or higher 		
	<ul style="list-style-type: none"> SSD: 500GB M.2, 		
	<ul style="list-style-type: none"> Optical Drive: DVD-RW 		
	<ul style="list-style-type: none"> Casing: W/ 700W PSU, 		
	<ul style="list-style-type: none"> Monitor: 23" IPS FHD, 		
	<ul style="list-style-type: none"> Operating System: 		
	<ul style="list-style-type: none"> Genuine Windows 10 Home (OEM) 		
	<ul style="list-style-type: none"> Keyboard and mouse combo 		
	<ul style="list-style-type: none"> 500W IC controlled AVR 		
	<ul style="list-style-type: none"> Stereo speakers 		
19	Desktop Computer (i7 Branded)	unit	3
	<ul style="list-style-type: none"> CPU: 9th Gen Intel Core i7-9700 (8-Core, 12MB Cache, up to 4.7GHz with Intel Turbo Boost Technology) or higher 		
	<ul style="list-style-type: none"> HDD: 256GB M.2 PCIe NVMe Solid State Drive + 1TB 7200 rpm 3.5" SATA Hard Drive 		
	<ul style="list-style-type: none"> RAM: 8GB (8GBx1) DDR4 2666MHz 		
	<ul style="list-style-type: none"> Graphics: NVIDIA GeForce GTX 1650 4GB GDDR5 		
	<ul style="list-style-type: none"> Screen: 23" IPS Monitor FHD 		
	<ul style="list-style-type: none"> Optical Drive: No Optical Drive 		
	<ul style="list-style-type: none"> OS: Windows 10 Home Single Language (64bit) English 		
	<ul style="list-style-type: none"> At least 3 year warranty 		
20	Desktop Computer, All-in-one (AIO)	unit	1
	<ul style="list-style-type: none"> Processor: 11th Generation Intel® i5-1135G7 processor (8MB Cache, up to 4.2 GHz) 		
	<ul style="list-style-type: none"> Display: 23.8-inch FHD (1920 x 1080) Anti-Glare Narrow Border Infinity Non-Touch Display 		
	<ul style="list-style-type: none"> GPU: Intel Iris Xe Graphics with shared graphics memory 		
	<ul style="list-style-type: none"> Memory: 8GB, 2666MHz, DDR4 (1x8GB, note: extra slot for upgrade) 		
	<ul style="list-style-type: none"> 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		
	Included with Wireless Keyboard and Mouse		
21	Desktop Microphone	pieces	6
	■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
	Digital Copier with Network Printing, Color Scanning and Network Fax		
	Copy and Print speed of 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	btls	5
24	Epson L6160 Black 001 Ink, Genuine	btls	3
25	Epson L6160 Cyan 001 Ink, Genuine	btls	3
26	Epson L6160 Magenta 001 Ink, Genuine	btls	3
27	External Hard Disk Drive (Portable, 1TB), USB 3.1	unit	8
	■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	
	☑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	
	☑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	
	☑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	
	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	
	☑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: $\leq 0.5^{\circ}$		
	7.Blade life: 48000 core wire		
	☐ Optical power meter		
	1.Wavelength range: 800~1700nm		
	2.Connector: FC/SC/ST (optional)		
	3.Uncertainty: $\pm 5\%$		
	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: $\geq 48h$		
33	Fiber to Copper Media Converter Gigabit Full Duplex Pair A/B Single Mode 25KM	pair	20
	☐Fiber to Copper Media Converter		
	☐Gigabit Full Duplex		
	☐Pair A/B		
	☐Single Mode		
	☐25KM		
34	Flash Drive, 128GB, USB 3.0	pcs	4
	☐Capacity:128GB		
	☐Interface: USB 3.0		
	☐Speed: 100MB/s read, 10MB/s write		
35	Flash Drive, at least 32GB USB 3.0	piece	6
36	Floor Standing Mounted Airconditioner	unit	1
	☐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
38	FTTH SC connector butterfly type bundle 10 pcs per pack	pack	5
	☐Field installable connector (SC) consist of the following components		
	◀Locking Tool		
	◀Flop Cover		
	◀Cable Buckle		
	◀Slider		
	◀Length Control Jig		
39	Generic Power supply, 700 watts	piece	1

	■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
	■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	unit	5
	■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
	■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)	unit	1
	☐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	sets	2
45	HP, Laserjet Toner Cartridge, CF401A, Cyan	pc	1
46	HP, Laserjet Toner Cartridge, CF403A, Magenta	pc	1
47	Ink HP GT51 Black (K)	btls	4
48	Ink HP GT52 Cyan (C)	btls	4
49	Ink HP GT52 Magenta (M)	btls	4
50	Ink HP GT52 Yellow (Y)	btls	4
51	Ink, Epson 003,Genuine Black 65mL	btl	6
52	Ink, EPSON 003,Genuine Cyan 65mL	btl	6
53	Ink, EPSON 003,Genuine Magenta 65mL	btl	6
54	Ink, EPSON 003,Genuine Yellow 65mL	btl	8
55	Ink, Epson Premium Dye Ink, 1 liter, black	btls	1
56	Ink, Epson Premium Dye Ink, 1 liter, magenta	btls	1
57	Ink, Epson Premium Dye Ink, 1 liter, yellow	btls	1
58	Ink, Epson T522, (B, Y, M, C)	sets	4
59	Ink, Epson, genuine (C) T664, 70 ml	btl	10
60	Ink, Epson, genuine (M) T664, 70 ml	btl	15
61	Ink, Epson, genuine, (BK) T664, 70 ml	btl	19
62	Ink, Epson, genuine, (Y) T664, 70 ml	btl	10
63	Keyboard and Mouse Combo Bundle, USB Powered	set	1
	☐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	
	☑Heavy Duty, for A3 & A4 size, infrared heating system and adjustable temperature control with overheating protection			
65	Laptop (Pentium Dual Core)	unit	2	
	☑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			
66	Laptop computer, i7, 16GB RAM	unit	1	
	☑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: 1 year with after sales service"			
67	Laptop, 14" (i7)	unit	1	
	☑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
	☑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
	☑Details		
	◀Architecture: ARM 64bit		
	◀CPU: 88F3720		
	◀CPU core count2		
	◀CPU nominal frequency800 MHz		
	◀RouterOS 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
	▣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
	▣2x8GB 2400Mhz DDR4		
	▣Non-ECC CL15 DIMM		
	▣Desktop Memory RAM with heat spreaders		
72	Micro Card Memory Shield Module	pcs	3
	▣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
	▣Processor: Broadcom BCM2711, quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.5 GHz		
	▣Memory: 4GB LPDDR4-2400 SDRAM		

	<ul style="list-style-type: none"> 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 		
	<ul style="list-style-type: none"> GPIO: Standard 40-pin GPIO header (fully backwards-compatible with previous boards) 		
	<ul style="list-style-type: none"> Video & Sound: 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port, 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port, 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port 		
74	Microcontroller, System on a Chip (SOC) Computer, 8GB RAM	set	1
	<ul style="list-style-type: none"> SoC Type (processor): Broadcom BCM2711, 64-bit ARM Cortex-A72 (ARMv8), Quad-core, 28nm 		
	<ul style="list-style-type: none"> core type: cortex- A72 64-bit (ARMv8) 		
	<ul style="list-style-type: none"> No. of Cores: quad-core 		
	<ul style="list-style-type: none"> GPU: VideoCore VI 		
	<ul style="list-style-type: none"> Multimedia: H.265 (4Kp60 decode); H.264 (1080p60 decode, 1080p30 encode); OpenGL ES, 3.0 graphics 		
	<ul style="list-style-type: none"> CPU Clock: 1.5 GHz 		
	<ul style="list-style-type: none"> Memory/ OS Storage: micro SD 		
	<ul style="list-style-type: none"> Ram LPDDR4: 8GB 		
	<ul style="list-style-type: none"> Ethernet: Gigabit Ethernet 		
	<ul style="list-style-type: none"> USB Port: 2 x micro HDMI support Dual Display 		
	<ul style="list-style-type: none"> wifi: 802.11 b/g/n/ac (2.4GHz + 5GHz & Shielded) 		
	<ul style="list-style-type: none"> Bluetooth: 5.0 + BLE (Shielded) 		
	<ul style="list-style-type: none"> antenna 		
	<ul style="list-style-type: none"> PCB Antenna 		
	<ul style="list-style-type: none"> GPIO 		
	<ul style="list-style-type: none"> 40 pins(fully backwards- compatible with Previous boards) 		
	<ul style="list-style-type: none"> Operating System: Raspbian 		
	<ul style="list-style-type: none"> 5V Via USB Type C (up to 3A), 5V Via GPIO header (upto 3A), Power over Ethernet, Requires PoE HAT 		
	<ul style="list-style-type: none"> Enclosure 		
	<ul style="list-style-type: none"> Clear Case with Fan 		
	<ul style="list-style-type: none"> Included Components 		
	<ul style="list-style-type: none"> type-C USB cord and HDMI cord 		
75	Microsoft Office Home & Student 2019, 1 Perpetual License, Medialess	pcs	2
	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
	<ul style="list-style-type: none"> 30 Liters capacity 		

	☑Grill and convection		
	☑electronic control		
	☑dual wave system		
	☑13 power levels		
	☑900W		
	☑Non-Inverter		
77	Mikrotik Router (Same as existing fleet of VSU)	unit	1
	☑CPU Nominal Frequency: 880MHz		
	☑CPU Core Count: 2		
	☑Size of Ram: 256 MB		
	☑10/100/1000 Ethernet Ports: 5 ports		
	☑PoE In: Yes		
	☑Supported Input Voltage: 8 - 30 V		
	☑PCB Temperature Monitor: Yes		
	☑Voltage Monitor: Yes		
	☑USB: Yes, Type A 2.0		
	☑Hardware Encryption: Yes		
	☑Dude Server Package Support: Yes		
	☑License Level: 4		
	☑Operation Sysyem: RouterOS		
	☑CPU: MT7612A		
	☑With hotspot capability		
78	Mini Voltage Regulator	pcs	2
	☑Input Voltage: 3.2V ~ 40V		
	☑Output Voltage: 1.25V ~ 35V		
	☑Output Current: 3A (maximum)		
	☑Connection port: IN + input positive IN - input negative, OUT + output positive OUT - output negative		
79	Mouse, Wired, Optical, USB	pieces	10
	☑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		
80	Multiplexer (MUX) Breakout (8 Channel)	pcs	3
	☑Operating Voltage: 1.65V - 5.5V		
	☑Operating Temperature: -40 - 85° C		
	☑I2C Address: 0x70 (default) up to 0x77		
	☑10x Qwiic Connector: 8x Channels		
	☑2x Pass Through (Daisy Chain)		

81	Nano Engraving PET Transmission Diffraction Grating Teaching spectral decomposition Precision component Detect	set	3	
	Size: 20x20mm			
	Thickness: 2mm'			
	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	
	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			
83	Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)	unit	1	
	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	pcs	8	
	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	
	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	
	■Two-Door Direct Cool Refrigerator			
87	RJ 45, Passthrough, CAT6	box	110	
	■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	
	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	
	■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
	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
	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
	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
	Tower type Fan,		
	880mm with Ionizer and remote		
	Wattage (40w), Fan speed: 1425RPM		
94	Triad Spectroscopy Sensor	set	3
	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	sets	2
	■70dB high gain triband signal booster, with AGC gain control function		
	■Support 850MHz + 900MHz + 1800MHz (band 3/5/8)		
	■Improving the voice calls and data transmission for 2G/3G/4G network		
	■Extensive coverage: 300-600 square meters (barrier-free)		
	■Compatible with multiple local operators, suitable for multiple phone users		
	■HD LCD, display real-time signal status, lower radiation		
96	UPS (Computer)	unit	2
	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.		
97	UPS, at least 1000 VA	unit	3
	■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		
98	UPS, at least 500 w	piece	1
99	UPS, at least 800 watts, 4 hours charging time	unit	3
100	UTP Cable (300 meters), CAT 6 23 AWG	box	29
	■UTP Cable cat6		
	■Cat 6 Cable UTP Unshielded AWG23		
	■Gray Data LAN Cable		
	■1000 feet 305m 1000ft.		
	■must be UL listed & ISO certified cable		
101	Water Dispenser, Cabinet type	pc	1
	■Floor standing		
	■Hot and cold function		
	■plastic body,high efficiency compressor		
	■thermally protected		
102	Web Camera for Laptop and Desktop	pcs	2
	■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
	☑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
	☑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
	☑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			
106	Wireless Access Point	unit	3	
	☑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			
	☑Beamforming Supported			
	☑Maximum Power Consumption 10.5W			
	☑Supported Voltage Range 44 to 57VDC			
	☑TX Power			
	☑2.4 GHz			
	☑5 GHz			
	☑23 dBm			
	☑26 dBm			
	☑MIMO			
	☑2.4 GHz			
	☑5 GHz			
	☑2x2			
	☑4x4			
	☑Radio Rates			
	☑2.4 GHz			
	☑5 GHz			
	☑300 Mbps			
	☑1733 Mbps			
	☑Antennas			
	☑2.4 GHz			
	☑5 GHz			
	☑(2) Single-Port, Single-Polarity Antennas, 2.8 dBi each			
	☑(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		
	☑Should be compatible with existing UniFi Controller		
107	Wireless Optical Mouse	pcs	10
	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 (must be compatible with item #109-110)	pc	1
	☑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
	☑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		
	◀Back Focal Length: 7.53mm		
110	Camera Module, 8MP, Pi NoIR v2	set	3
	■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		
	■Included Components: Compatible ribbon cable (150mm CSI camera cable), Blue filter		
111	RJ-45 Volition U.S. standard Faceplate face plate panel double port 2-Port IO Information Outlet plate for compatibility with existing fleet (must be compatible with item #112-113)	pcs	35
	■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
	■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 •		
	☑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		
113	RJ-45 Modular Connector (AMP)	pcs	40
114	3D printer	set	1
	☑Extruder Compatibility: CR10 (MK8 Hotend)		
	☑Printing Technology: FFF (Fused Filament Fabrication)		
	☑Filament Diameter:1.75mm		
	☑Layer Resolution: 100µm		
	☑Max. Print Speed:180mm/sec		
	☑Precision: ±0.1mm		
	☑Extruder Quantity: Single		
	☑Max Nozzle Temp.: 255°C		
	☑Heated Build Plate (Heated Bed):Yes		
	☑Max Bed Temp: 110°C		
	☑Bed Type: Glass		
	☑Leveling: Automatic		
	☑Build Volume X: 220mm		
	☑Build Volume Y: 220mm		
	☑Build Volume Z: 250mm		
	☑Supported Materials: ABS, FLEX, PET, PLA, TPU,		

	☑File Format: G-Code, OBJ, STL		
	☑Working Mode: Offline (SD Card/USB Stick), Online (USB)		
	☑Nozzle diameter: 0.4mm can be in 0.2, 0.3mm		
	☑Max Traveling Speed: 180mm/s		
	☑Slicer: Cura (Works with Simplify3D not included)		
	☑Operating System: Windows/Mac/Linux		
	☑Chassis: Imported V-Slot Aluminum Bearings		
	☑Electrical Input: AC 100-265V 50-60Hz		
	☑Output: DC 24V 15A 360W		
115	3D Printer Filament Set (for 3D Printer in Item 114)	set	1
	* (1 pc) 3D Printer Filament (ABS)		
	☑Mass: 1 KG (approximately 2.20 lbs) Spool		
	☑Filament Diameter: 1.75mm (Dimensional Accuracy +/- 0.03mm)		
	☑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
	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 (±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 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
	Rebidding (from GOODS-21-28)		
118	Ink Cartridge, HP680, black	pcs	20
119	Ink Cartridge, HP680, tri color	pcs	20
120	Ink Cartridge, HP704, black	pcs	40
121	Ink Cartridge, HP704, tri color	pcs	40
122	Computer Printer 3-in-1 with CIS Filled with Inks	unit	2
	■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	
	☑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	Projector Screen	pc	1	
	☑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	
	☑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			
126	DSLR Camera (24.2 MP, APS-C with 18-55mm lens)	unit	2	
	☑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 NFC/Bluetooth 4.0		
127	CCTV IP Camera	piece	5
	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
	305M UTP Cable (Unshielded Twisted Pairs) CAT5E		
	Category: Cat5E		
	4Pairs 24AWG		
	Insulation Thickness: 0.2mm Jacket		
	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
	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
	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
	☑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
	☑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		
133	Printer All-in-One System With Wi-fi, ADF and Ink Tank System	unit	1
	☑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		
134	Heavy Duty Combo Binding Machine	unit	1
	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
	☑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
	☑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	
	☐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	
139	HP Ink Cartridge 678 Black	pcs	5	
140	HP Ink Cartridge 678 Tricolor	pcs	10	

Section VII. Technical Specifications

Technical Specifications

Item No.	Description	STATEMENT OF COMPLIANCE
1	14" LAPTOP	<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder’s statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
	Processor: Intel Core i7-1065G7 (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	1KM Single Core FTTH Drop Cable	
	■ 1 Kilometer FTTH Drop Cable	
	■ Single-Core outdoor	
	■ GS657	
	■ 3 steel wire messenger	
3	Air Condition, Split type, Inverter, 2.0 HP	
	■ 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	
	■ 1.5 HP	
	■ Split Type Air Conditioner	
	■ Wall Mounted, Deluxe Inverter	
	■ Intelligent Inverter Technology	
	■ Honeycomb Intake Grille	
	■ Nanoe-G, Auto Comfort	
	■ Quiet 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	
	■ 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)
	■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
	■Wire type: 28 AWG (7 strands @ 36 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
	■Input: 220volts
	■Power: 1500watts
	■Output: 110-220 volts
	■Range voltage 120v-220 volts
	■Servo motor controlled
9	AVR, 500W (IC Controlled)
	■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	
	☑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	
11	Computer HD Webcam	
	☑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	
	☑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	
	☑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	
	☑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	
	■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	
	■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)	
	■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: 240GB	
	■Keyboard and Mouse Combo	
	■Casing with Power Supply	

	<ul style="list-style-type: none"> 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,
	<ul style="list-style-type: none"> Operating System: Genuine Windows 10 Home (OEM)
	<ul style="list-style-type: none"> AVR: 500W IC controlled
18	Desktop Computer (i5)
	<ul style="list-style-type: none"> Processor:
	<ul style="list-style-type: none"> Intel Core i5 9400F or higher
	<ul style="list-style-type: none"> Motherboard:
	<ul style="list-style-type: none"> Intel H310 Chipset
	<ul style="list-style-type: none"> Anti-Sulfur Resistors Design
	<ul style="list-style-type: none"> Gaming LAN with Bandwidth Management
	<ul style="list-style-type: none"> Memory:
	<ul style="list-style-type: none"> 16GB (2x8) DDR4 or higher
	<ul style="list-style-type: none"> SSD: 500GB M.2,
	<ul style="list-style-type: none"> Optical Drive: DVD-RW
	<ul style="list-style-type: none"> Casing: W/ 700W PSU,
	<ul style="list-style-type: none"> Monitor: 23" IPS FHD,
	<ul style="list-style-type: none"> Operating System:
	<ul style="list-style-type: none"> Genuine Windows 10 Home (OEM)
	<ul style="list-style-type: none"> Keyboard and mouse combo
	<ul style="list-style-type: none"> 500W IC controlled AVR
	<ul style="list-style-type: none"> Stereo speakers
19	Desktop Computer (i7 Branded)
	<ul style="list-style-type: none"> CPU: 9th Gen Intel Core i7-9700 (8-Core, 12MB Cache, up to 4.7GHz with Intel Turbo Boost Technology) or higher
	<ul style="list-style-type: none"> HDD: 256GB M.2 PCIe NVMe Solid State Drive + 1TB 7200 rpm 3.5" SATA Hard Drive
	<ul style="list-style-type: none"> RAM: 8GB (8GBx1) DDR4 2666MHz
	<ul style="list-style-type: none"> Graphics: NVIDIA GeForce GTX 1650 4GB GDDR5
	<ul style="list-style-type: none"> Screen: 23" IPS Monitor FHD
	<ul style="list-style-type: none"> Optical Drive: No Optical Drive
	<ul style="list-style-type: none"> OS: Windows 10 Home Single Language (64bit) English
	<ul style="list-style-type: none"> At least 3 year warranty
20	Desktop Computer, All-in-one (AIO)
	<ul style="list-style-type: none"> Processor: 11th Generation Intel® i5-1135G7 processor (8MB Cache, up to 4.2 GHz)
	<ul style="list-style-type: none"> Display: 23.8-inch FHD (1920 x 1080) Anti-Glare Narrow Border Infinity Non-Touch Display
	<ul style="list-style-type: none"> GPU: Intel Iris Xe Graphics with shared graphics memory
	<ul style="list-style-type: none"> Memory: 8GB, 2666MHz, DDR4 (1x8GB, note: extra slot for upgrade)
	<ul style="list-style-type: none"> 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
	Included with Wireless Keyboard and Mouse
21	Desktop Microphone
	■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
	Digital Copier with Network Printing, Color Scanning and Network Fax
	Copy and Print speed of 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
24	Epson L6160 Black 001 Ink, Genuine
25	Epson L6160 Cyan 001 Ink, Genuine
26	Epson L6160 Magenta 001 Ink, Genuine
27	External Hard Disk Drive (Portable, 1TB), USB 3.1
	■Shock-absorbing silicon casing
	■Interface: USB 3.1 (Max.5Gb/s)
	■Capacity: 1TB
	■Texture: Plastic/Rubber

	<ul style="list-style-type: none"> Operating Voltage: DC 5V, 900mA 	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> Shock-absorbing silicon casing 	
	<ul style="list-style-type: none"> Interface: USB 3.1 (Max.5Gb/s) 	
	<ul style="list-style-type: none"> Capacity: 1TB 	
	<ul style="list-style-type: none"> Texture: Plastic/Rubber 	
	<ul style="list-style-type: none"> Operating Voltage: DC 5V, 900mA 	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> Shock-absorbing silicon casing 	
	<ul style="list-style-type: none"> Interface: USB 3.1 (Max.5Gb/s) 	
	<ul style="list-style-type: none"> Capacity: 2TB 	
	<ul style="list-style-type: none"> Texture: Plastic/Rubber 	
	<ul style="list-style-type: none"> Operating Voltage: DC 5V, 900mA 	
	<ul style="list-style-type: none"> 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	
	<ul style="list-style-type: none"> Shock-absorbing silicon casing 	
	<ul style="list-style-type: none"> Interface: USB 3.1 (Max.5Gb/s) 	
	<ul style="list-style-type: none"> Capacity: 4TB 	
	<ul style="list-style-type: none"> Texture: Plastic/Rubber 	
	<ul style="list-style-type: none"> Operating Voltage: DC 5V, 900mA 	
	<ul style="list-style-type: none"> 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	
	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	
	<ul style="list-style-type: none"> Technical Parameters: 	
	<ul style="list-style-type: none"> ◀ 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: $\leq 0.5^{\circ}$
	7.Blade life: 48000 core wire
	☑ Optical power meter
	1.Wavelength range: 800~1700nm
	2.Connector: FC/SC/ST (optional)
	3.Uncertainty: $\pm 5\%$
	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)
	7Automatic shutdown time: 10min
	8.Battery continuous working time: $\geq 48h$
33	Fiber to Copper Media Converter Gigabit Full Duplex Pair A/B Single Mode 25KM
	☑Fiber to Copper Media Converter
	☑Gigabit Full Duplex
	☑Pair A/B
	☑Single Mode
	☑25KM
34	Flash Drive, 128GB, USB 3.0
	☑Capacity:128GB
	☑Interface: USB 3.0
	☑Speed: 100MB/s read, 10MB/s write
35	Flash Drive, at least 32GB USB 3.0
36	Floor Standing Mounted Airconditioner
	☑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
38	FTTH SC connector butterfly type bundle 10 pcs per pack
	☑Field installable connector (SC) consist of the following components
	◀Locking Tool
	◀Flop Cover
	◀Cable Buckle
	◀Slider

	◀Length Control Jig	
39	Generic Power supply, 700 watts	
	▣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	
	▣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	
	▣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)	
	▣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)
	☑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
45	HP, Laserjet Toner Cartridge, CF401A, Cyan
46	HP, Laserjet Toner Cartridge, CF403A, Magenta
47	Ink HP GT51 Black (K)
48	Ink HP GT52 Cyan (C)
49	Ink HP GT52 Magenta (M)
50	Ink HP GT52 Yellow (Y)
51	Ink, Epson 003,Genuine Black 65mL
52	Ink, EPSON 003,Genuine Cyan 65mL
53	Ink, EPSON 003,Genuine Magenta 65mL
54	Ink, EPSON 003,Genuine Yellow 65mL
55	Ink, Epson Premium Dye Ink, 1 liter, black
56	Ink, Epson Premium Dye Ink, 1 liter, magenta
57	Ink, Epson Premium Dye Ink, 1 liter, yellow
58	Ink, Epson T522, (B, Y, M, C)
59	Ink, Epson, genuine (C) T664, 70 ml
60	Ink, Epson, genuine (M) T664, 70 ml
61	Ink, Epson, genuine, (BK) T664, 70 ml
62	Ink, Epson, genuine, (Y) T664, 70 ml
63	Keyboard and Mouse Combo Bundle, USB Powered
	☑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	
	☑Heavy Duty, for A3 & A4 size, infrared heating system and adjustable temperature control with overheating protection	
65	Laptop (Pentium Dual Core)	
	☑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	
66	Laptop computer, i7, 16GB RAM	
	☑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: 1 year with after sales service"	
67	Laptop, 14" (i7)	
	☑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
	☑ 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
	☑ Details
	◀ Architecture: ARM 64bit
	◀ CPU: 88F3720
	◀ CPU core count 2
	◀ CPU nominal frequency 800 MHz
	◀ RouterOS 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
	☑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)
	☑2x8GB 2400Mhz DDR4
	☑Non-ECC CL15 DIMM
	☑Desktop Memory RAM with heat spreaders
72	Micro Card Memory Shield Module
	☑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	
	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)	
	Video & Sound: 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port, 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port, 2 x micro HDMI ports (up to 4Kp60 supported) 2-lane MIPI DSI display port 2-lane MIPI CSI camera port 4-pole stereo audio and composite video port	
74	Microcontroller, System on a Chip (SOC) Computer, 8GB RAM	
	SoC Type (processor): Broadcom BCM2711, 64-bit ARM Cortex-A72 (ARMv8), Quad-core, 28nm	
	core type: cortex-A72 64-bit (ARMv8)	
	No. of Cores: quad-core	
	GPU: VideoCore VI	
	Multimedia: H.265 (4Kp60 decode); H.264 (1080p60 decode, 1080p30 encode); OpenGL ES, 3.0 graphics	
	CPU Clock: 1.5 GHz	
	Memory/ OS Storage: micro SD	
	Ram LPDDR4: 8GB	
	Ethernet: Gigabit Ethernet	
	USB Port: 2 x micro HDMI support Dual Display	
	wifi: 802.11 b/g/n/ac (2.4GHz + 5GHz & Shielded)	
	Bluetooth: 5.0 + BLE (Shielded)	
	antenna	
	PCB Antenna	
	GPIO	
	40 pins(fully backwards- compatible with Previous boards)	
	Operating System: Raspbian	
	5V Via USB Type C (up to 3A), 5V Via GPIO header (upto 3A), Power over Ethernet, Requires PoE HAT	
	Enclosure	
	Clear Case with Fan	
	Included Components	
	type-C USB cord and HDMI cord	
75	Microsoft Office Home & Student 2019, 1 Perpetual License, Medialess	
	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	
	☑30 Liters capacity	
	☑Grill and convection	
	☑electronic control	
	☑dual wave system	
	☑13 power levels	
	☑900W	
	☑Non-Inverter	
77	Mikrotik Router (Same as existing fleet of VSU)	
	☑CPU Nominal Frequency: 880MHz	
	☑CPU Core Count: 2	
	☑Size of Ram: 256 MB	
	☑10/100/1000 Ethernet Ports: 5 ports	
	☑PoE In: Yes	
	☑Supported Input Voltage: 8 - 30 V	
	☑PCB Temperature Monitor: Yes	
	☑Voltage Monitor: Yes	
	☑USB: Yes, Type A 2.0	
	☑Hardware Encryption: Yes	
	☑Dude Server Package Support: Yes	
	☑License Level: 4	
	☑Operation Sysyem: RouterOS	
	☑CPU: MT7612A	
	☑With hotspot capability	
78	Mini Voltage Regulator	
	☑Input Voltage: 3.2V ~ 40V	
	☑Output Voltage: 1.25V ~ 35V	
	☑Output Current: 3A (maximum)	
	☑Connection port: IN + input positive IN - input negative, OUT + output positive OUT - output negative	
79	Mouse, Wired, Optical, USB	
	☑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	

80	Multiplexer (MUX) Breakout (8 Channel)	
	Operating Voltage: 1.65V - 5.5V	
	Operating Temperature: -40 - 85° C	
	I2C Address: 0x70 (default) up to 0x77	
	10x Qwiic Connector: 8x Channels	
	2x Pass Through (Daisy Chain)	
81	Nano Engraving PET Transmission Diffraction Grating Teaching spectral decomposition Precision component Detect	
	Size: 20x20mm	
	Thickness: 2mm	
	Material: Float Glass	
	Scribed line density: 300lines/mm 600lines/mm 1000lines /mm 1200lines /mm 1800lines /mm	
	Working Wavelength: 200nm~1000nm	
82	Network Switch, Unmanaged	
	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	
83	Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)	
	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	

	<ul style="list-style-type: none"> Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology)
	<ul style="list-style-type: none"> Minimum Ink Droplet Size: 3 pl
84	Qwiic Cable
	<ul style="list-style-type: none"> at least 100mm long
	<ul style="list-style-type: none"> 4-conductor cable
	<ul style="list-style-type: none"> 1mm JST termination
	<ul style="list-style-type: none"> it's designed to connect Qwiic enabled components together
85	Refillable Ink Cartridge
	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)
	<ul style="list-style-type: none"> Two-Door Direct Cool Refrigerator
87	RJ 45, Passthrough, CAT6
	<ul style="list-style-type: none"> Simplifies twisted pair terminations by allowing the wires to be inserted through the connector and out the front
	<ul style="list-style-type: none"> Technician can easily verify the proper wiring order
	<ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> Reduces the distance between the wire twists and contacts improves performance
	<ul style="list-style-type: none"> For use in Cat 6 compliant data networks
	<ul style="list-style-type: none"> 100 pieces per box
88	SD card 512GB
	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	
	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	
	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	
	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)	
	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	
	Tower type Fan,	
	880mm with Ionizer and remote	

	<ul style="list-style-type: none"> Wattage (40w), Fan speed: 1425RPM
94	Triad Spectroscopy Sensor
	<ul style="list-style-type: none"> Selectable interface: I2C or Serial (115200bps) 18 frequencies of light sensing: 410nm to 940nm Special Features: <ul style="list-style-type: none"> 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
	<ul style="list-style-type: none"> 70dB high gain triband signal booster, with AGC gain control function Support 850MHz + 900MHz + 1800MHz (band 3/5/8) Improving the voice calls and data transmission for 2G/3G/4G network Extensive coverage: 300-600 square meters (barrier-free) Compatible with multiple local operators, suitable for multiple phone users HD LCD, display real-time signal status, lower radiation
96	UPS (Computer)
	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.
97	UPS, at least 1000 VA
	<ul style="list-style-type: none"> 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
98	UPS, at least 500 w
99	UPS, at least 800 watts, 4 hours charging time
100	UTP Cable (300 meters), CAT 6 23 AWG
	<ul style="list-style-type: none"> UTP Cable cat6 Cat 6 Cable UTP Unshielded AWG23 Gray Data LAN Cable 1000 feet 305m 1000ft. must be UL listed & ISO certified cable
101	Water Dispenser, Cabinet type

	☑Floor standing
	☑Hot and cold function
	☑plastic body,high efficiency compressor
	☑thermally protected
102	Web Camera for Laptop and Desktop
	☑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
	☑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
	☑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	
	▣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	
106	Wireless Access Point	
	▣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	
	▣Beamforming Supported	
	▣Maximum Power Consumption 10.5W	
	▣Supported Voltage Range 44 to 57VDC	
	▣TX Power	
	▣2.4 GHz	
	▣5 GHz	
	▣23 dBm	
	▣26 dBm	
	▣MIMO	
	▣2.4 GHz	
	▣5 GHz	
	▣2x2	
	▣4x4	
	▣Radio Rates	
	▣2.4 GHz	
	▣5 GHz	
	▣300 Mbps	
	▣1733 Mbps	
	▣Antennas	
	▣2.4 GHz	
	▣5 GHz	
	▣(2) Single-Port, Single-Polarity Antennas, 2.8 dBi each	
	▣(2) Single-Port, Dual-Polarity Antennas, 3 dBi each	

	<ul style="list-style-type: none"> Wi-Fi Standards 802.11 a/b/g/n/r/k/v/ac/ac-wave2 	
	<ul style="list-style-type: none"> Wireless Security WEP, WPA-PSK, WPA-Enterprise (WPA/WPA2, TKIP/AES), 802.11w/PMF 	
	<ul style="list-style-type: none"> BSSID 8 per Radio 	
	<ul style="list-style-type: none"> Mounting Wall/Ceiling (Kits Included) 	
	<ul style="list-style-type: none"> Operating Temperature -10 to 70° C (14 to 158° F) 	
	<ul style="list-style-type: none"> Operating Humidity 5 to 95% Noncondensing 	
	<ul style="list-style-type: none"> Certifications CE, FCC, IC 	
	<ul style="list-style-type: none"> Advanced Traffic Management 	
	<ul style="list-style-type: none"> VLAN 802.1Q 	
	<ul style="list-style-type: none"> Advanced QoS Per-User Rate Limiting 	
	<ul style="list-style-type: none"> Guest Traffic Isolation Supported 	
	<ul style="list-style-type: none"> WMM Voice, Video, Best Effort, and Background 	
	<ul style="list-style-type: none"> Concurrent Clients 200+ 	
	<ul style="list-style-type: none"> Supported Data Rates (Mbps) 	
	<ul style="list-style-type: none"> Standard Data Rates 	
	<ul style="list-style-type: none"> 802.11a 6, 9, 12, 18, 24, 36, 48, 54 Mbps 	
	<ul style="list-style-type: none"> 802.11n 6.5 Mbps to 300 Mbps (MCS0 - MCS15, HT 20/40) 	
	<ul style="list-style-type: none"> 802.11ac 6.5 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2/3/4, VHT 20/40/80) 	
	<ul style="list-style-type: none"> 58 Mbps to 1.7 Gbps (MCS0 - MCS9 NSS1/2, VHT 160) 	
	<ul style="list-style-type: none"> 802.11b 1, 2, 5.5, 11 Mbps 	
	<ul style="list-style-type: none"> 802.11g 6, 9, 12, 18, 24, 36, 48, 54 Mbps 	
	<ul style="list-style-type: none"> Should be compatible with existing UniFi Controller 	
107	Wireless Optical Mouse	
	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 (must be compatible with item #109-110)	
	<ul style="list-style-type: none"> LCD Type: TFT 	
	<ul style="list-style-type: none"> LCD driver IC: ILI9486L 	
	<ul style="list-style-type: none"> LCD Interface: SPI (up to 125MHz SPI input Max FPS: 50Mhz) 	
	<ul style="list-style-type: none"> Touch Screen Type: Resistive 	
	<ul style="list-style-type: none"> Touch Screen Controller: XPT2046 	
	<ul style="list-style-type: none"> Colors: 65536 	
	<ul style="list-style-type: none"> Backlight: LED 	
	<ul style="list-style-type: none"> Resolution: 320*480 (Pixel) 	
	<ul style="list-style-type: none"> Backlight Current: 120ma 	
	<ul style="list-style-type: none"> Power: 0.16A x 5V 	

	<ul style="list-style-type: none"> Operating Temp. (°C):-20~70 	
	<ul style="list-style-type: none"> Includes: 1 x Touch pen, 3 x Heatsink 	
109	Camera Module + 6mm lens	
	<ul style="list-style-type: none"> Image Sensor: SONY IMX477R stacked, black-illuminated sensor, 12.3 Megapixels, 7.9mm sensor diagonal, 1.55um x 1.55 um pixel size 	
	<ul style="list-style-type: none"> Output: RAW12/10/8, COMP8 	
	<ul style="list-style-type: none"> Back Focus: Adjustable (12.5mm - 22.4mm) 	
	<ul style="list-style-type: none"> Lens standards: C-mount or CS-mount (C-CS adapter included) 	
	<ul style="list-style-type: none"> IR filter: integrated 	
	<ul style="list-style-type: none"> Ribbon cable/FFC length: 200mm 	
	<ul style="list-style-type: none"> Tripod mount: 1/4" - 20 	
	<ul style="list-style-type: none"> 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) 	
	<ul style="list-style-type: none"> Include a 6mm wide angle lens with the following specs 	
	<ul style="list-style-type: none"> Image Format: 1/2" 	
	<ul style="list-style-type: none"> Focal Length: 6mmR 	
	<ul style="list-style-type: none"> Resolution: 3MegaPixel 	
	<ul style="list-style-type: none"> Aperture: F1.2 	
	<ul style="list-style-type: none"> Mount: CS 	
	<ul style="list-style-type: none"> Field Angle DxHxV°: 63° 	
	<ul style="list-style-type: none"> M.O.D.: 0.2m 	
	<ul style="list-style-type: none"> Back Focal Length: 7.53mm 	
110	Camera Module, 8MP, Pi NoIR v2	
	<ul style="list-style-type: none"> CCD size:1/4 inch 	
	<ul style="list-style-type: none"> Aperture(F):2 	
	<ul style="list-style-type: none"> Focal Length:3.04 mm (adjustable) 	
	<ul style="list-style-type: none"> Field of View:73.8 degrees 	
	<ul style="list-style-type: none"> Picture Resolution:3280 × 2464 	
	<ul style="list-style-type: none"> Video Record Resolution: 1080p30, 720p60 and 640x480p90 	
	<ul style="list-style-type: none"> Compatible: Raspberry Pi controller/ processor 	
	<ul style="list-style-type: none"> Pi NoIR Infrared Camera Board V2 	
	<ul style="list-style-type: none"> Camera sensor: Sony IMX219 8 megapixel sensor 	
	<ul style="list-style-type: none"> Included Components: Compatible ribbon cable (150mm CSI camera cable), Blue filter 	
111	RJ-45 Volition U.S. standard Faceplate face plate panel double port 2-Port IO Information Outlet plate for compatibility with existing fleet (must be compatible with item #112-113)	
	<ul style="list-style-type: none"> IO Information Outlet plate 	
	<ul style="list-style-type: none"> Ensure easy fitting and smart presentation of the RJ45 jacks 	

	<ul style="list-style-type: none"> ■ The Keystone mounting feature of the Jack may allow you to use other Keystone boxes or faceplates. 	
	<ul style="list-style-type: none"> ■ High performance 	
	<ul style="list-style-type: none"> ■ Brand new 	
	<ul style="list-style-type: none"> ■ comes with 2 pcs screws 	
	<ul style="list-style-type: none"> ■ 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	
	<ul style="list-style-type: none"> ■ IO Information Outlet 	
	<ul style="list-style-type: none"> ■ Tool-less jack • 	
	<ul style="list-style-type: none"> ■ Re-usable • 	
	<ul style="list-style-type: none"> ■ Shallow Depth, Cable Entry from top or bottom • 	
	<ul style="list-style-type: none"> ■ Keystone Mounting • 	
	<ul style="list-style-type: none"> ■ Accepts both solid conductors from AWG 26 to 22 and stranded conductors • 	
	<ul style="list-style-type: none"> ■ Integral shutter Benefits • 	
	<ul style="list-style-type: none"> ■ Easy and quick to install • 	
	<ul style="list-style-type: none"> ■ Fast reliable connection in record time: 8 copper conductor wired in a single connection • 	
	<ul style="list-style-type: none"> ■ Quality of connection by design: not dependant on tool condition or operator skills 	
	<ul style="list-style-type: none"> ■ Consistent results • 	
	<ul style="list-style-type: none"> ■ Easier cable management • 	
	<ul style="list-style-type: none"> ■ 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)	
114	3D printer	
	<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 	

	☑Extruder Quantity: Single	
	☑Max Nozzle Temp.: 255°C	
	☑Heated Build Plate (Heated Bed):Yes	
	☑Max Bed Temp: 110°C	
	☑Bed Type: Glass	
	☑Leveling: Automatic	
	☑Build Volume X: 220mm	
	☑Build Volume Y: 220mm	
	☑Build Volume Z: 250mm	
	☑Supported Materials: ABS, FLEX, PET, PLA, TPU,	
	☑File Format: G-Code, OBJ, STL	
	☑Working Mode: Offline (SD Card/USB Stick), Online (USB)	
	☑Nozzle diameter: 0.4mm can be in 0.2, 0.3mm	
	☑Max Traveling Speed: 180mm/s	
	☑Slicer: Cura (Works with Simplify3D not included)	
	☑Operating System: Windows/Mac/Linux	
	☑Chassis: Imported V-Slot Aluminum Bearings	
	☑Electrical Input: AC 100-265V 50-60Hz	
	☑Output: DC 24V 15A 360W	
115	3D Printer Filament Set (for 3D Printer in Item 114)	
	* (1 pc) 3D Printer Filament (ABS)	
	☑Mass: 1 KG (approximately 2.20 lbs) Spool	
	☑Filament Diameter: 1.75mm (Dimensional Accuracy +/- 0.03m	
	☑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 celsuis	
	☑Recommended Platform Temperature: 40 - 60 degree celsuis	
	☑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
	DCV: 400m/4/40/400/1000V
	ACV: 4/40/400/1000V $\pm(1.2\%+7)$
	DCA: 400 μ /4000 μ /40m/400m/4/10A
	ACA: 400 μ /4000 μ /40m/400m/4/10A
	Resistance: 400/4k/40k/400k/4M/40M Ω
	Capacitance: 50n/500n/5 μ /50 μ /100 μ F
	Frequency: 5/50/500/5k/50k/100kHz
	Continuity: Buzzer sounds and LED lights up at between 0 Ω and 85 Ω ($\pm 45\Omega$. Open voltage: Approx. 0.4V
	Diode test: Open voltage:approx. 1.5V
	Battery Check: Approximate value (30 Ω load) 1.5V battery only
	Display numeral display: 4000
	Sampling rate: 3 times/sec.
	Bandwidth: 40~400Hz (Sine wave)
	Fuse: 0.5A/1000V 30kA Φ 6.35×32mm 10A/1000V 30kA Φ 10×38mm
	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 $\pm(1.2\%+7)$
	DCA: 400 μ /4000 μ /40m/400m/4/10A
	ACA: 400 μ /4000 μ /40m/400m/4/10A
	Resistance: 400/4k/40k/400k/4M/40M Ω
	Capacitance: 50n/500n/5 μ /50 μ /100 μ F
	Frequency: 5/50/500/5k/50k/100kHz
	Continuity: Buzzer sounds and LED lights up at between 0 Ω and 85 Ω ($\pm 45\Omega$) . Open voltage: Approx. 0.4V
	Diode test: Open voltage:approx. 1.5V
	Battery Check: Approximate value (30 Ω load) 1.5V battery only
	Display numeral display: 4000
	Sampling rate: 3 times/sec.
	Bandwidth: 40~400Hz (Sine wave)
	Fuse: 0.5A/1000V 30kA Φ 6.35×32mm 10A/1000V 30kA Φ 10×38mm
	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	
	<i>Rebidding (from GOODS-21-28)</i>	
118	Ink Cartridge, HP680, black	
119	Ink Cartridge, HP680, tri color	
120	Ink Cartridge, HP704, black	
121	Ink Cartridge, HP704, tri color	
122	Computer Printer 3-in-1 with CIS Filled with Inks	
	☑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)	
	☑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	Projector Screen	
	☑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)	
	☑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
126	DSLR Camera (24.2 MP, APS-C with 18-55mm lens)
	☑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 NFC/EF-S 18-55mm f/3.5-5.6 IS STM
127	CCTV IP Camera
	☑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
	☑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
	☑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)

	<ul style="list-style-type: none"> Write speed: 90 MB/s maximum (Burst)
	<ul style="list-style-type: none"> Write speed: 30 MB/s Minimum
	<ul style="list-style-type: none"> Built-in Write Protect Switch
	<ul style="list-style-type: none"> Durability: Shockproof, Temperature Extremes, waterproof, X-ray Proof
	<ul style="list-style-type: none"> Opening Temperature: -25 to 85C
130	Computer Printer, All-in-One / Multifunction Colored-Ink Tank
	<ul style="list-style-type: none"> Ultra-low-cost printing: Print up to 8,100 pages in black and 6,500 in colour
	<ul style="list-style-type: none"> Next generation ink filling system: Enjoy hassle and mess-free refills with the enhanced ink bottles
	<ul style="list-style-type: none"> Wi-Fi, Wi-Fi Direct & apps: Print from mobile devices
	<ul style="list-style-type: none"> 3-in-1: Print, copy & scan and borderless photo printing
	<ul style="list-style-type: none"> Nozzle Configuration: 180 Nozzles Black, 59 Nozzles per Color
	<ul style="list-style-type: none"> Minimum Droplet Size: 3 pl, With Variable-Sized Droplet Technology
	<ul style="list-style-type: none"> Ink Technology: Dye Ink
	<ul style="list-style-type: none"> Printing Resolution: 5,760 x 1,440 DPI
131	Tablet, 7.9 Inch (Wifi only)
	<ul style="list-style-type: none"> 7.9-inch (diagonal) LED-backlit Multi-Touch display
	<ul style="list-style-type: none"> 2048-by-1536 resolution at 326 pixels per inch (ppi)
	<ul style="list-style-type: none"> Wide color display (P3)
	<ul style="list-style-type: none"> True Tone display
	<ul style="list-style-type: none"> Fingerprint-resistant oleophobic coating
	<ul style="list-style-type: none"> Fully laminated display
	<ul style="list-style-type: none"> Antireflective coating
	<ul style="list-style-type: none"> 500 nits brightness
	<ul style="list-style-type: none"> 8MP camera
	<ul style="list-style-type: none"> f/2.4 aperture
	<ul style="list-style-type: none"> Five-element lens
	<ul style="list-style-type: none"> Hybrid IR filter
	<ul style="list-style-type: none"> Backside illumination
	<ul style="list-style-type: none"> 7MP photos
	<ul style="list-style-type: none"> f/2.2 aperture
	<ul style="list-style-type: none"> 1080p HD video recording at 30 fps
	<ul style="list-style-type: none"> Retina Flash
	<ul style="list-style-type: none"> Wi-Fi (802.11a/b/g/n/ac); simultaneous dual band (2.4GHz and 5GHz); HT80 with MIMO
	<ul style="list-style-type: none"> Bluetooth 5.0 technology
132	Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)
	<ul style="list-style-type: none"> Antivirus Software keeps your PC/Laptop/Mobile device safe from Trojans, viruses, spyware, rootkits, and more, with state-of-the-art anti-malware protection

	<ul style="list-style-type: none"> ☑ Detects, quarantines, and blocks viruses and malware to prevent damage to your PC/Laptop 	
	<ul style="list-style-type: none"> ☑ Keep zero-day threats and botnets at bay - McAfee Active Protection and Global Threat Intelligence technology have you covered 	
	<ul style="list-style-type: none"> ☑ Block inappropriate sites 	
	<ul style="list-style-type: none"> ☑ Two-Way Firewall system monitors and stops traffic in and out of your PC 	
	<ul style="list-style-type: none"> ☑ Keep sensitive files private by storing them on your PC with 128-bit encryption 	
	<ul style="list-style-type: none"> ☑ Eliminate the hassle of passwords with the password manager app 	
133	Printer All-in-One System With Wi-fi, ADF and Ink Tank System	
	<ul style="list-style-type: none"> ☑ PRINTER TYPE: 	
	<ul style="list-style-type: none"> ◀ Print, Scan, Copy, Fax with ADF 	
	<ul style="list-style-type: none"> ☑ ISO PRINT SPEED (BLACK/COLOUR): 	
	<ul style="list-style-type: none"> ◀ Up to 10 ipm / 5.0 ipm 	
	<ul style="list-style-type: none"> ☑ ISO PRINT SPEED (BLACK/COLOUR): 	
	<ul style="list-style-type: none"> ◀ Up to 7.7 ipm / 3.8 ipm 	
	<ul style="list-style-type: none"> ☑ MAXIMUM COPY SIZE: Legal 	
	<ul style="list-style-type: none"> ☑ SCAN SPEED (FLATBED / ADF): 	
	<ul style="list-style-type: none"> ◀ 12 sec / 4.5 ipm (black), 29 sec / 4.5 ipm (colour) 	
	<ul style="list-style-type: none"> ☑ TYPE OF FAX: 	
	<ul style="list-style-type: none"> ◀ Walk-up Black and white and colour fax capability 	
	<ul style="list-style-type: none"> ☑ SUPPORTED OS & APPLICATIONS: 	
	<ul style="list-style-type: none"> ◀ Windows XP / Vista / 7 / 8 / 8.1 / 10 	
	<ul style="list-style-type: none"> ◀ Windows Server 2003/ 2008 / 2012 / 201 	
	<ul style="list-style-type: none"> ◀ Mac OS X 10.6.8 or later 	
	<ul style="list-style-type: none"> ☑ INTERFACE: 	
	<ul style="list-style-type: none"> ◀ USB 2.0, Ethernet, Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct 	
134	Heavy Duty Combo Binding Machine	
	<ul style="list-style-type: none"> Φ Specs: 	
	<ul style="list-style-type: none"> ☑ Maximum Punching Sheets: 25 	
	<ul style="list-style-type: none"> ☑ Max Size: LS, F4, A4, Extra Long 	
	<ul style="list-style-type: none"> ☑ Selectable Punching Pins: 24 slots 	
135	Paper Shredder Machine, Heavy Duty	
	<ul style="list-style-type: none"> ☑ Shred Type: Cross Cut 	
	<ul style="list-style-type: none"> ☑ Maximum Sheet capacity(70gsm) : 10 Sheets 	
	<ul style="list-style-type: none"> ☑ Waste Container capacity: 21 Liters 	
	<ul style="list-style-type: none"> ☑ Power Source: 220 - 240 VAC 	
136	All-in-One Printer with ADF	
	<ul style="list-style-type: none"> ☑ PRINTER TYPE: 	
	<ul style="list-style-type: none"> ◀ Print, Scan, Copy, Fax with ADF 	
	<ul style="list-style-type: none"> ☑ ISO PRINT SPEED (BLACK/COLOUR): 	
	<ul style="list-style-type: none"> ◀ 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	
	■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	
	<i>Rebidding (from GOODS-21-33)</i>	
138	Blank DVD+RW 8x 4.7Gb w/indiv case	
139	HP Ink Cartridge 678 Black	
140	HP Ink Cartridge 678 Tricolor	

Section VIII. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class “A” Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);
or
- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document,
and
- ☐ (c) Mayor’s or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;
and
- ☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

Note: If the bidder submits item (a), bidder may not submit requirements (b), (c) & (d).

Technical Documents

- ☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**
- ☐ (g) Statement of the bidder’s Single Largest Completed Contract (SLCC) similar to the contract to be bid in the amount of *at least 50% of the ABC or at least One Million Five Hundred Nine Thousand One Hundred Eight and 50/100 Pesos (PhP 1,509,108.50)*;
or
Statement of at least two (2) similar completed contracts, the aggregate amount of which should be equivalent to *at least 50% of the ABC or at least One Million Five Hundred Nine Thousand One Hundred Eight and 50/100 Pesos (PhP 1,509,108.50)* and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or *at least Seven Hundred Fifty-Four Thousand Five Hundred Fifty-Four and 25/100 Pesos (PhP 754,554.25)*; **and**
- ☐ (h) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;
or
Original copy of Notarized Bid Securing Declaration; **and**
- ☐ (i) Conformity with the Technical Specifications; **and**
- ☐ (j) Production/delivery schedule; **and**
- ☐ (k) Manpower requirements; **and**
- ☐ (l) After-sales/parts, if applicable; **and**
- ☐ (m) Original duly signed Omnibus Sworn Statement (OSS);

and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

Financial Documents

- ☐ (n) The Supplier's audited financial statements, showing, among others, the Supplier's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- ☐ (o) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) – at least equal to ABC (**PhP 3,018,217.00**);
or
A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation (at least 10% of ABC or **PhP 301,821.70**).

II. FINANCIAL COMPONENT ENVELOPE

- ☐ (a) Original of duly signed and accomplished Financial Bid Form; **and**
- ☐ (b) Original of duly signed and accomplished Price Schedule(s).

Guidelines on the Preparation of Electronic Bid (e-Bid)
(for bidders who prefer electronic bid submission)

1. Scan all documents and save as Portable Document Format (PDF) files.
2. Properly label each document 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 (August 26, 2021; 8:30 AM).



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