Bidding No.: GOODS-21-11
Bidding Title: Supply and Delivery of I.T Equipment and Supplies
Location of the Project: VSU Main, Visca, Baybay City Leyte

VISAYAS STATE UNIVERSITY

B I D   B U L L E T I N   0 1

Date: 15 March 2021

Project Title: *Supply and Delivery of I.T. Equipment and Supplies (GOODS-21-11)*

Location: VSU Main, Visca, Baybay City, Leyte

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

I.   LIST OF REQUIREMENTS

(1st Envelope) TECHNICAL COMPONENT ENVELOPE	
Legal Documents	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate (SEC, DTI or CDA)
	b. Mayor's/Business Permit
	c. Tax Clearance
Technical Documents	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or Php 3,064,515.00)
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php 3,064,515.00 and the largest of which should be at least PhP 1,532,257.50.
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 30 days for supplies)
9	Original Duly Signed Omnibus Sworn Statement
Financial Documents	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least Php 6,129,030.00)
	Or
	Committed Line of Credit (at least Php 612,903.00)
(2nd Envelope) FINANCIAL COMPONENT ENVELOPE	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)

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Please take note:

In the **Technical Specifications**, bidders must state either "Comply" or "Not Comply" **against each of the individual parameters of the specifications** per item stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in the **Bidders Bid** and cross-referenced to that evidence. Evidence shall be in the form of **manufacturer's un-amended sales literature (Data Sheets), unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data, and Brand and Model** as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidders statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the provisions of **ITB** Clause 3.1(a)(ii) and/or **GCC** Clause 2.1 (a)(ii).

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

1.   Convert all documents into Portable Document Format (PDF) and should be printable.
2.   Properly label all documents for prompt identification. Filename of documents, whichever are applicable to the bidder, should be as follows:

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

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

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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 **jecleo@vsu.edu.ph** before the deadline.

III. Changes in the Bidding Documents

Original	Amendment
5. A complete set of Bidding Documents may be acquired by interested Bidders on *03 March – 23 March 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 Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.	5. A complete set of Bidding Documents may be acquired by interested Bidders on *03 March – 23 March 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 Ten Thousand Pesos (PhP 10,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means. The Bidders may also deposit the applicable fee to Visayas State University Landbank Account: **Account Name**: Visayas State University Fund 164 **Account Number**: 3572-1000-13 And send the deposit slip to Ms. Jessamine C. Ecleo at jecleo@vsu.edu.ph

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IV. Revised List of Goods and Technical Specifications

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

Item #	Item Description and Specifications	Unit	Qty	Unit Price	Total Price
1	**AVR, 500W (IC Controlled)**	unit	26	**500.00**	**13,000.00**
	◉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				
2	**Computer Monitor 24"**	set	6	**10,000.00**	**60,000.00**
	◉Panel Size: Wide Screen 23.8"(60.5cm) 16:9				
	◉Color Saturation : 72%(NTSC)				
	◉Panel Type : In-Plane Switching				
	◉True Resolution : 1920x1080				
	◉Brightness(Max) : 250 cd/m				
	◉Contrast Ratio (Max) : 1000:1				
	◉Response Time : 5ms (Gray to Gray)				
	◉Display Colors : 16.7M				
	◉Flicker free				
	Voltage input: 110-240V				
3	**Desktop Computer (i7)**	unit	3	**45,000.00**	**135,000.00**
	◉Processor: Intel® Core™ i7 8th Generation or higher				
	◉Chipset: Intel®H310				
	◉Graphics: Intel® HD Graphics Discrete graphics				
	◉Memory: at least 4 GB Dual Channel, DDR4 at 2666MHz expandable to 32 GB				
	◉Expansion Slots: 1 x M.2, 2 x PCI-e x 1, 1 x PCI-e x 16				
	◉SATA: at least 4 x SATA 6Gb/s *1				
	◉Storage: at least 250 GB M.2 SSD				
	◉Operating System: Genuine Windows 10 Home				
	◉Power Supply: at least 500 W Peak with ATX case				
	◉Monitor: 24" LED IPS Full HD				
	◉Keyboard and Mouse				
4	**External Hard Disk Drive (Portable, 2TB), USB 3.0**	unit	5	**5,500.00**	**27,500.00**
	◉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				

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	later				
5	**Printer, Laser Jet**	unit	3	**7,500.00**	**22,500.00**
	◉Function: Print Only				
	◉Print speed black (normal, A4): Up to 20 ppm				
	◉Print speed: Print speed up to 21 ppm (black)				
	◉Print speed black (normal, letter): Up to 21 ppm				
	◉Print quality black (best): Up to 1,200 x 1,200 dpi				
	◉Connectivity, standard: Hi-Speed USB 2.0 port, Wireless 802.11 b/g/n				
	◉Compatible Operating Systems: Windows: (32/64 bit),				
6	**Laptop 15.6", AMD Ryzen 3750**	unit	1	**72,000.00**	**72,000.00**
	◉AMD Ryzen 7 3750H Processor 2.3ghZ Up to 4GHz				
	◉Licensed Windows 10 Home				
	◉15.6" FHD (1920x1080), 120Hz, IPS-Level				
	◉at least 4GB AMD Radeon RX 5500M GDDR6				
	◉at least 16GB DDR4				
	◉at least 512GB NVMe PCIe Gen3x2 SSD				
	◉Per-Key RGB Backlight Keyboard				
	◉802.11 ac Wi-Fi + Bluetooth v5				
	◉1x Type-C USB3.2 Gen1				
	◉3x Type-A USB3.2 Gen1				
	◉1x RJ45				
	◉1x Micro SD				
	◉1x (4K @ 60Hz) HDMI				
	◉1x Mini-DisplayPort				
	◉at least 6-Cell Li-Ion Battery (Type) 51 Battery (Whr)				
7	Ink cartridge, photocopier "EPSON WF-C869R 02 Yellow, T9734, 192.4ML"	pc	3	**9,490.00**	**28,470.00**
8	Ink cartridge, photocopier "EPSON WF-C869R 02 Cyan, T9732, 192.4ML"	pc	3	**9,490.00**	**28,470.00**
9	Ink cartridge, photocopier "EPSON WF-C869R 02 - black"	pcs	5	**7,000.00**	**35,000.00**
10	Ink cartridge, photocopier "EPSON WF-C869R 02 Magenta, T9733, 192.4ML"	pc	3	**9,490.00**	**28,470.00**
11	**Computer Keyboard USB**	pcs	15	**400.00**	**6,000.00**
	◉Standard Keyboard with 104 Keys				
	◉USB Connection				
	◉Low Profile Key Caps				
	◉Minimum Key Noise				
	◉Laser Printing for Key Layout				
	◉Spill Resistant Design				
12	**All-in-One Ink Tank Printer Wi-Fi Duplex with ADF**	unit	2	**20,000.00**	**40,000.00**
	◉Compact integrated tank design				
	◉Print speeds up to 15ipm for black and 8.0ipm for colour				
	◉Control Panel: 2.4 " Colour LCD Touch Panel				
	◉Auto-duplex printing Fax and ADF capability				

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	◉Ethernet & Wi-Fi Direct				
	◉Borderless Printing up to A4 size				
	◉Spill-free ink refilling				
13	Epson L6160 Black 001	btls	15	400.00	6,000.00
14	Epson L6160 Cyan 001	btls	8	350.00	2,800.00
15	Epson L6160 Magenta 001	btls	12	350.00	4,200.00
16	Epson L6160 Yellow 001	btls	7	350.00	2,450.00
17	External Hard Disk Drive (Portable, 1TB), USB 3.0	unit	12	3,800.00	45,600.00
18	**HDMI to HDMI cable**	piece	10	500.00	5,000.00
	◉Chord 1.8 meter long;				
19	UPS, at least 500 w	piece	7	2,550.00	17,850.00
20	**Mouse, Wired, Optical, USB**	pieces	22	210.00	4,620.00
	◉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				
21	Flash Drive, at least 32GB USB 3.0	piece	24	800.00	19,200.00
22	Ink, Epson, genuine, (Y) T664, 70 ml	pieces	128	350.00	44,800.00
23	Ink, Epson, genuine, (BK) T664, 70 ml	pieces	237	350.00	82,950.00
24	Ink, Epson, genuine (M) T664, 70 ml	pieces	125	350.00	43,750.00
25	Ink, Epson 003,Genuine Black 65mL	btl	67	350.00	23,450.00
26	Ink, EPSON 003,Genuine Cyan 65mL	btl	43	350.00	15,050.00
27	Ink, EPSON 003,Genuine Magenta 65mL	btl	43	350.00	15,050.00
28	Ink, EPSON 003,Genuine Yellow 65mL	btl	43	350.00	15,050.00
29	Ink cartridge Cannon Pixma 810 black	pc	22	800.00	17,600.00
30	Ink Cartridge Canon Pixma 811 Color	pcs	22	1,100.00	24,200.00
31	DVD+RW 8x 4.7Gb w/indiv case	pieces	10	50.00	500.00
32	UPS, at least 800 watts, 4 hours charging time	unit	2	5,000.00	10,000.00
33	Ink, Epson, genuine (C) T664, 70 ml	pieces	130	350.00	45,500.00
34	Toner, Cartridge, HP Laser Jet CB435A, Black	piece	4	3,500.00	14,000.00
35	Ink, Brother BTD60BK, Black	btls	20	400.00	8,000.00
36	Ink, Brother BT5000C Cyan	btls	15	350.00	5,250.00
37	Ink, Brother BT5000M Magenta	btls	15	350.00	5,250.00
38	**Laptop 14" (i5)**	unit	3	44,000.00	132,000.00
	◉Processor: Intel Core i5-1035G1 Processor 1.0 GHz 6M Cache, up to 3.60 GHz or higher				
	◉Operating system: Licensed Windows 10 Home				
	◉Memory: 4GB Onboard memory, 1 x SO-DIMM socket (for expansion)				
	◉Display: 14.0" (16:9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC				
	◉Video Processor: NVIDIA GeForce MX330 , with 2GB GDDR5 VRAM				

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	◙Storage: 512GB PCIe Gen3 x2 SSD				
39	Ink, Brother BT5000Y Yellow	btls	15	350.00	5,250.00
40	**Desktop Computer (w/o Monitor)**	unit	16	24,000.00	384,000.00
	◙Processor: Intel Core i3-9100F Processor (9M Cache, up to 4.10 GHz)				
	◙Motherboard Intel H310 Ultra Durable motherboard, Gaming LAN, Anti-Sulfur Resistor, LGA-1151				
	◙Memory: 8GB DDR4 2400 DIMM Desktop Memory				
	◙SSD: at least 240GB				
	◙Casing with Power Supply				
	◙Operating System: Genuine Windows 10 Home (OEM)				
	◙w/ USB Keyboard and Mouse				
41	**UPS, 1000 VA**	unit	9	3,000.00	27,000.00
	◙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				
42	**Arduino Laboratory Kit**	sets	25	2,500.00	62,500.00
	◙1xUNO R3 Board based on Arduino				
	◙1xUSB Cable				
	◙1x (16×2) LCD with I2C Adapter				
	◙1xRC522 Module				
	◙1xRFID Card				
	◙1xKey Chain				
	◙1xJoystick Module				
	◙1xKey Board				
	◙1xRTC Module				
	◙1xWater Level Sensor				
	◙1xDHT11 Humidity Sensor				
	◙1xRGB Module				
	◙1xULN2003 Motor Driver Module				
	◙1x28BYJ-48 Stepper Motor				
	◙1×1-Channel Relay Module				
	◙1xMB-102 Breadboard				
	◙65xJumper Wire				
	◙10xFemale-Male Jumper Cable				
	◙1xSound Sensor Module				
	◙1xRemote				
	◙1x10K Potentiometer				
	◙1×1 Digital Tube				
	◙1×4 Digital Tube				
	◙1xMatrix Tube				
	◙1xSG90 Micro Servo				

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	◉2xBuzzer				
	◉2xBall Switches				
	◉3xPhotoresistance				
	◉5xTactile Switches with Caps				
	◉1x9V Battery Clip with DC Jack				
	◉15x5mm LED				
	◉30xResistance (220ohm, 1K ohm, 10K ohm)				
	◉1xFlame Sensor				
	◉1xIR Receiver Sensor				
	◉1x74HC595				
	◉1xLM35DZ				
43	**Unifi 500W PoE+ Switch**	unit	4	**35,000.00**	**140,000.00**
	◉24 ports PoE+ Switch 500W				
	◉Network Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports				
	◉Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band				
	◉Total Non-Blocking Throughput : 26 Gbps				
	◉Switching Capacity: 52 Gbps				
	◉Forwarding Rate: 38.69 Mpps				
	◉MAC Address Table: 16384				
	◉Maximum Aggregations: 6				
	◉Monitoring Sessions 1				
	◉Maximum VLANs 255				
	◉Power Method 100-240VAC/50-60 Hz, Universal Input				
	◉Power Supply AC/DC, Internal, 500W DC				
	◉Max. Power Consumption: Including PoE Output: 500W Excluding PoE Output: 30W				
	◉ESD/EMP Protection Air: ± 24 kV, Contact: ± 24 kV				
	◉Shock and Vibration ETSI300-019-1.4 Standard				
	◉Operating Temperature -5 to 40° C (23 to 104° F)				
	◉Operating Humidity 5 to 95% Noncondensing				
	◉Certifications CE, FCC, IC				
	◉PoE Interfaces PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)				
	◉Max. PoE+ Wattage per Port by PSE 34.2W				
	◉Voltage Range 802.3at Mode 50–57V				
	◉Max. Passive PoE Wattage per Port 17W				
	◉24V Passive PoE Voltage Range 20-27V				
	◉Should be compatible with existing Unifi Controller				
	◉1 year warranty				
44	**Video Card, RTX 2060**	unit	1	**28,000.00**	**28,000.00**
	◉NVIDIA GEFORCE RTX 2060				
	◉Stream Processors (CUDA): 1920				
	◉RTX-OPS: 37T				
	◉Giga Rays/s: 5				
	◉Base Clock: 1620 MHz				

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	◉Video Memory: 6GB DDR 6				
	◉Graphics Card Power (W): 160W				
45	**Mouse, Wired Optical, PS/2**	pc	17	**210.00**	**3,570.00**
	◉Ergonomic Design: Symmetric				
	◉Sensor : Optical				
	◉Type: Wired (PS2)				
	◉System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10				
	◉2 buttons + scrolling wheel optical mouse				
	◉Works on most surfaces				
	◉Microsoft system compatible				
	◉Resolution: 1000 DPI				
46	**Printer, computer, continuous ink system, 4-in-1 (Print, Scan, Xerox copy, Fax)**		4	**13,500.00**	**54,000.00**
	◉Print Method:On-demand ink jet (piezoelectric)				
	◉Minimum Ink Droplet Volume:3 pl				
	◉Print Direction:Bi-directional printing, Uni-directional printing				
	◉Nozzle Configuration:180 nozzles Black, 59 nozzles per colour (Cyan, Magenta, Yellow)				
	◉Maximum Resolution:5760 x 1440 dpi (with Variable-Sized Droplet Technology)				
	◉USB:USB 2.0				
47	**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℃ 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				
48	**Desktop Computer (i5)**	unit	2	**45,000.00**	**90,000.00**
	◉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: at least 500GB M.2,				
	◉Optical Drive: DVD-RW				
	◉Casing: W/ 700W PSU,				
	◉Monitor: AT LEAST 23" IPS FHD,				
	◉Operating System: Genuine Windows 10 Home (OEM)				
	◉Keyboard and mouse combo				
	◉500W IC controlled AVR				
	with headset and webcam				
49	Toner, NPG 67, Yellow for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	1	**17,000.00**	**17,000.00**
50	**Computer Server (File Server/ Network Attached**	unit	1	**150,000.00**	**150,000.00**

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	Storage)				
	◉CPU Model: Intel Atom C3538				
	◉CPU Architecture: 64-bit				
	◉CPU Frequency: 4-core 2.1 GHz				
	◉Hardware Encryption Engine (AES-NI)				
	◉System Memory: 16 GB DDR4 non-ECC UDIMM				
	◉Memory Module Pre-installed: 16 GB (16GBx1)				
	◉Total Memory Slots: 4				
	◉Maximum Memory Capacity: 64 GB (16 GB x 4)				
	◉Storage: Drive Bays (12)				
	◉Maximum Drive Bays with Expansion Unit: 24				
	◉Compatible Drive Type: 3.5" SATA HDD, 2.5" SATA HDD, 2.5" SATA SSD				
	◉Maximum Internal Raw Capacity: 192 TB (16 TB drive x 12)				
	◉Maximum Raw Capacity with Expansion Units: 384 TB (192 TB + 16 TB drive x 12)				
	◉Maximum Single Volume Size: 108 TB				
	◉Hot Swappable Drive				
	◉External Ports: RJ-45 1GbE LAN Port				
	◉4 (with Link Aggregation / Failover support)				
	◉USB 3.0 Port: 2				
	◉Expansion Port: 1				
	◉PCIe: PCIe Expansion				
	◉1 x Gen3 x8 slot (black, x4 link)				
	◉Internal Drives: Btrfs - EXT4				
	◉External Drives: EXT3 - FAT -NTFS -HFS+ -exFAT*				
	◉Form Factor (RU): 2U				
	◉Rack Installation Support: 4-post 19" rack				
51	**Computer Printer, 3-in-1/Multifunction Colored-Ink Tank**	unit	14	**11,000.00**	**154,000.00**
	◉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				
	◉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				
52	**Electric Paper Shredder**	unit	2	**40,000.00**	**80,000.00**
	◉16 sheets shredder Infrared automatic paper feeding				
	◉Shredding Capacity: <10 Sheets/Shred				
	◉Shredding Medium: Photo				
	◉Shredding Medium: Card				
	◉Shredding Medium: CD				
	◉Shredding Medium: Paper				

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	◙Capacity: <50L				
	◙Power: Electricity				
	◙Shredder Type: Cross-Cut				
	◙Security grade: s4				
	◙Volume: 30L				
	◙Power: 400w				
53	**Wireless Optical Mouse**	pcs	6	**1,000.00**	**6,000.00**
	◙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 2 x AA alkaline batteries, you can use this mouse with only one battery				
54	Ink continuous, refill, black (Brother DCP T310)	btls	6	**400.00**	**2,400.00**
55	Ink continuous, refill, black (Brother DCP T300/MFC 220)	btls	8	**400.00**	**3,200.00**
56	Ink continuous, refill, cyan (Brother DCP T300/MFC 220)	btls	6	**400.00**	**2,400.00**
57	Ink continuous, refill, cyan (Brother DCp T310)	btls	6	**400.00**	**2,400.00**
58	Ink continuous, refill, magenta (Brother DCP T310)	btls	6	**400.00**	**2,400.00**
59	Ink continuous, refill, yellow (Brother DCP T300/MFC 220)	btls	6	**400.00**	**2,400.00**
60	Ink continuous, refill, magenta (Brother DCP T300/MFC 220)	btls	6	**400.00**	**2,400.00**
61	**Robotic Vacuum Cleaner**	unit	1	**16,000.00**	**16,000.00**
	◙Dynamic vision navigation				
	◙smart control water tank				
	◙2500Pa suction				
	◙App remote Control 100-240V				
	◙15 sensors				
	◙All-new vision navigation system fast capturing clean location and building a precise cleaning map path				
	◙Powerful chip: VSLAM algorithm + CortexTM-A7 quad-core professor				
	◙200ml automatic intelligent electric control water tank				
	◙Up to 20mm Crossing obstacles				
	◙Cleaning in details: Floating Suction Nozzle + Strong Main Brush + High-precise Filtering				
62	**ATX Power Supply (500W)**	pieces	8	**980.00**	**7,840.00**
	◙Single 6pin				
	◙24pin connector				
	◙Dual 4pin for board				
	◙4 sata supply				
	◙4 molex supply				
63	**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				

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	◙Screen Height at least 2030mm				
	◙Screen at least Width 1145mm				
	◙Metal casing				
64	**External Solid State Drive, (Portable, at least 500GB), USB 3.1**	pc	1	**6,000.00**	**6,000.00**
	◙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				
65	Ink, Cartridge, LC 539XL-BK, DCP-J100	box	3	**450.00**	**1,350.00**
66	Ink, Cartridge, LC535XL-Yellow, DCP-J100	box	3	**400.00**	**1,200.00**
67	Ink, Cartridge, LC535XL - Magenta, DCP-J10	box	3	**400.00**	**1,200.00**
68	Ink, Cartridge, LC535XL - Cyan, DCP-J100	box	3	**400.00**	**1,200.00**
69	Ink, Brother LC-539XL, Black	pc	5	**470.00**	**2,350.00**
70	Ink, Brother LC-539XL, Cyan	pc	5	**470.00**	**2,350.00**
71	Ink, Brother LC-539XL, Magenta	pc	5	**470.00**	**2,350.00**
72	Ink, Brother LC-539XL, Yellow	pc	5	**470.00**	**2,350.00**
73	Ink, Refill, UNIKIT for CIS black,yellow,cyan,magenta	set	1	**790.00**	**790.00**
74	Computer Webcam	pieces	10	**1,000.00**	**10,000.00**
75	EPSON L220 Ink Cartridge Black	btls	20	**300.00**	**6,000.00**
76	**Speaker, for PC, 2.1 (Speaker with Subwoofer)**	pc	5	**1,270.00**	**6,350.00**
	◙Power Output : rms 4.5w×2 sw: 12w				
	◙Signal to noise ratio : 80dba				
	◙Frequency Response : 80hz~20khz (±6db)				
	◙R/l: 300±50mv sw: 100 ± 20mv				
	◙Aux/USB/SD card				
	◙Bass driver :4 inch				
	◙Treble driver :2 3/4 inch				
77	EPSON L220 Ink Cartridge Cyan	btls	11	**300.00**	**3,300.00**
78	EPSON L220 Ink Cartridge Magenta	btls	11	**300.00**	**3,300.00**
79	EPSON L220 Ink Cartridge Yellow	btls	11	**300.00**	**3,300.00**
80	**M.2 Solid State Drive (for Laptop)**	unit	1	**4,000.00**	**4,000.00**
	◙Capacity: 256GB				
	◙Form Factor: M.2 2280				
	◙NAND Flash: 3D NAND				
	◙Interface: PCIe Gen3x4				
	◙Performance (Max): Read 1800MB/s, Write 1200MB/s				
	◙Maximum 4k random read/write IOPS: up to 220K/200K				
81	**Desktop Microphone**	pieces	6	**650.00**	**3,900.00**
	◙Compatible with: Desktop/Notebook/PC, Windows 7-10				
	◙Pickup: 6mm Condenser Mic				
	◙Microphone Directivity: Omnidirectional				

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#	Description	Unit	Qty	Unit Price	Total
	◉2Sensitivity: -58db±3db				
	◉Signal-to-noise Ratio: ≤50dB				
	◉Cable Length: 2.5m				
	◉Type: 3.5mm Plug				
82	**Web Camera for PC**	unit	6	**2,500.00**	**15,000.00**
	◉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 ℃ to 60 ℃				
83	**Surge suppressor 6 outlets**	unit	2	**200.00**	**400.00**
	◉Maximum capacity: 2500W				
	◉Voltage Surge Protector (protects appliances from voltage spikes)				
	◉6 Neon Switch				
	◉1 Circuit Breaker (protects appliance from overload or short circuit)				
	◉3 Two-Prong Outlets				
	◉3 Three-Prong Outlets w/ Grounding				
	◉90 degree outlet orientation				
	◉With line/noise filter				
	◉Royal Cord #16/3 (5.00 meters)				
	◉Metal casing				
84	**External Hard Disk Drive, (Portable 1TB), USB 3.0**	piece	3	**3,500.00**	**10,500.00**
	◉Hard Drive Type:2.5" HDD				
	◉USB Interface: USB 3.0				
	◉Capacity: 1TB				
85	**HP Laser Jet CP1025 color Imaging Drum**	pc	2	**6,000.00**	**12,000.00**
	◉HP126A Imaging Drum (14,000 pages) for HP CP1025,LaserJet Pro Color 100 M175a,LaserJet Pro M275nw Printers.				
86	HD Webcam	pc	1	**5,200.00**	**5,200.00**
87	**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				

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	◉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 rangeSafety: IEC61010CAT.Ⅲ600V/CAT.Ⅱ1000VDCV: 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.Ⅲ600V/CAT.Ⅱ1000V				
88	**HDMI Splitter (8 Port)**	unit	3	**7,000.00**	**21,000.00**
	◉Display Connections- 8				
	◉Device HDMI In: 1 x HDMI type A Female (Black)				
	◉Display HDMI Out: 8 x HDMI type A female (black)				
	◉Power 1 x DC jack				
	◉LEDs Power: Green				
	◉Input: 1 (green)				
	◉Output: (1-8): 1 (green)				
	◉HDMI Resolution: 4k x 2k, 1080p				
	◉Consumption: 5 VDC, 14.84W				
	◉Operating Temperature: 32 to 122F (0 to 50C)				
	◉Storage Temperature: -4 to 140F (-20 to 60 C)				
	◉Humidity: 0 to 80% RH (non-condensing)				

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	◉Housing Metal				
89	**Memory Card Holder**	pc	1	200.00	200.00
	◉22 slots Memory Card storage				
	◉Carrying Pouch Holder Wallet Case Bag				
90	**Memory Card Reader**	pc	1	650.00	650.00
	◉Interface type: USB 3.0				
	◉Transfer rate:5Gbps				
	◉Apply to SD Card, Memory Stick Card, CF Card, MS Card				
91	**SD Card, MicroSD, 32GB**	pc	1	500.00	500.00
	◉32 GB High Speed 80MB/s				
	◉MicroSDHC UHS-I Class10 UI				
	◉A1 Performance memory card with SD Adapter				
92	SD Card, 64GB	pcs	1	800.00	800.00
	◉64GB SD Card				
	◉SDHC UHS-1 Class 10 80MB/s				
93	**HDMI Extender**	pc	1	4,000.00	4,000.00
	◉120M HDMI Extender Cascade Connection				
	◉4k Via Cat5e/6				
	◉CAT6 RJ45 Ethernet Lan Network Card Cable				
	◉Transmitter Receiver TX RX W/ IR				
94	**SD Card, 128 GB**	pcs	2	1,700.00	3,400.00
	◉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				
95	HDMI to 3G SDI Converter	pcs	4	9,000.00	36,000.00
	◉Input HDMI (x1)				
	◉Output SDI (x2) - switchable between SD, HD & 3Gbs SDI				
	◉Audio Analog: (2) channels of professional balanced analog with standard 1/4 jack connections				
	◉Digital: channels of professional balanced digital with standard 1/4 jack connections, AES/EBU standard				
	◉Standards: 625/25 PAL, 525/29.97 NTSC, 1080PsF23.98, 1080PsF25, 1080i50,				
	1080i59.94, 1080i60, 720p50, 720p59.94 and 720p60				
	◉SDI Video Sampling: 4:2:2				
	◉SDI Video Rates: SDI video connections are switchable between standards definition and high definition				
	◉SDI Color Space: YUV				

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	◙SDI Audio Sampling: Television standard simple rate of 48kHz and 24 bit				
	◙SDI Auto Switching: Automatically selects between SD SDI, HD-SDI and 3 Gb/sSDI				
	◙Analog Color precision: 4:2:2				
	◙Power: 12VDC				
96	**UTP Cable (300 meters)**	box	1	**7,000.00**	**7,000.00**
	◙UTP Cable cat6				
	◙Cat 6 Cable UTP Unshielded AWG24				
	◙Gray Data LAN Cable				
	◙1000 feet 305m 1000ft.				
97	**Micro Converter Bi-Directional SDI/HDMI**	pc	1	**5,000.00**	**5,000.00**
	◙SDI Video Input				
	◙1xSD, HD or 3G-SDL				
	◙SDI Video Outputs				
	◙1xSDI loop out				
	◙HDMI Outputs				
	◙HDMI Type A out				
	◙Multi Rate Support				
	◙Auto detection or SD or HD				
	◙SDI Video Standards				
	◙1xSD, H525i159 94 NTSC, 625i50 PAL				
	◙HD Video Standard				
	◙720p50, 720p59.94, 720p60				
	◙SDI Compliance				
	◙SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE372M, SMPTE424M, SMPTE 425M				
	◙SDI Video Rates				
	◙SDI Video connections are switchable between standard definition, high definition level A and Level B 3G-SDI.				
98	**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				
99	**Netbook Laptop, Intel Celeron**	unit	1	**15,000.00**	**15,000.00**
	◙Intel® Celeron® Processor N3350 , up to 2.4GHz				

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	◉Intel HD Graphics 500 GPU				
	◉14.1 inch HD resolution				
	◉4GB RAM for Advanced Multitasking				
	◉128GB EMMC Storage Capacity				
	◉38000mWh Large Battery				
	◉Mini-HDMI Output & Two standard USB 3.0 Slot				
100	**Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)**	unit	2	**11,000.00**	**22,000.00**
	◉Tank Ink System				
	◉Printer Type: Print, Scan and Copy				
	◉Scanner Type: Flatbed colour image scanner				
	◉Sensor Type: CIS				
	◉Optical Resolution: 600 x 1200 dpi				
	◉Copy Speed: Maximum Copies from Standalone: 20 copies				
	◉Maximum Copy Size: A4, Letter				
	◉ISO 29183, A4 Simplex Flatbed (Black / Colour):				
	◉Up to 7.0 ipm / 1.7 ipm				
	◉Max Copy Resolution: 300 x 300 dpi				
	◉Paper Handling:				
	◄Up to 20 sheets-Premium Glossy Photo Paper 10 sheets-Envelope, 30 sheets-Postcard				
	◄Output Capacity: Up to 30 sheets, A4 plain paper				
	◄20 sheets, Premium Glossy Photo Paper				
	◄Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24")				
	◄Paper Size: Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm), 5 x 7", 4 x 6", Envelopes: #10, DL, C6				
	◄Print Margin: 0 mm top, left, right, bottom via custom settings in printer driver				
	◄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				
	◄Printer Language: ESC / P-R				
101	**Toner Cartridge, HP 85A	CE285A, Black**	boxes	2	**3,500.00**	**7,000.00**
	◉HP 85A (CE285A) toner cartridges work with: HP LaserJet Pro M1212nf, M1217nfw, P1102w, P1109w				
	◉HP 85A toner cartridge yield (approx.): 1,600 pages. Operating temperature range is 10 to 32.5°C				
102	**Headset, Over Ear, wired**	sets	3	**750.00**	**2,250.00**
	◉Wearing Type: Over-ear				
	◉Microphone: Yes				
	◉Volume Control: Yes				
	◉One Key Mute Button: Yes				
	◉Microphone: Omnidirectional				

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	◉Plug Type: 3.5mm				
	◉Speaker Diameter: 50mm				
	◉Receive Sensitivity: 101dB				
	◉Impedance: 32Ω				
	◉Frequency Response: 20-20kHz				
103	Printer Ink HP LaserJet Pro M225dw 83A	pcs	2	4,300.00	8,600.00
104	**Laptop, 14" (i7)**	unit	1	60,000.00	60,000.00
	◉Processor: Intel Core i7-1065G7 or higher (1.3/3.9GHz, 8MB Cache)				
	◉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) TN 220nits 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: Windows 10 Home				
	◉Bundled Software: Microsoft Office Perpetual License				
	◉FREE: Backpack				
	◉1 year Warranty				
105	**Ribbon Cartridge EPSON S015639**	pieces	3	165.00	495.00
	◉Ribbon Cartridge S015639 for EPSON LQ-310 printer				
106	Computer ribbon, EPSON SO15531/15086, Genuine	pieces	6	765.00	4,590.00
107	HP Ink Cartridge 678 Black	piece	20	450.00	9,000.00
108	HP Ink Cartridge 678 Tricolor	piece	50	450.00	22,500.00
109	Anti-virus Software, at least 5 users, 1 year from installation	pc	2	5,000.00	10,000.00
110	Automatic Voltage Regulatory (AVR), 1500W, heavy duty	unit	2	5,000.00	10,000.00
111	**UI-5000-8500 Universal Interface**	unit	3	36,955.00	110,865.00
	◉USB 2.0 computer connection				
	◉External trigger input and output for synchronizing multiple 850s or other equipment				
	◉44-pin expansion port for personalized expansion of applications				
	◉Analog inputs are protected up to ±300 V. Outputs and power supplies are protected from short circuits.				
	◉Protected by PASCO's five year warranty				
112	Toner, NPG 67, Black for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	6	14,000.00	84,000.00
113	Toner, NPG 67, Cyan for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	5	17,000.00	85,000.00
114	Toner, NPG 67, Magenta for Canon C3320 Image Runner advance (photocopier, printer/scanner)machine	pcs	5	17,000.00	85,000.00

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115	**Computer Desktop (assembled)**	set	1	40,000.00	40,000.00
	◉Processor: Core i5-at least 10th generation, 3.4GHz				
	◉RAM DDR4: at least 8GB				
	◉SSD: at least 500GB				
	◉PORT: VGA, USB 2.0, Enthernet, Head set & mic, PS/2				
	◉PCIE SLOT: Available				
	◉PSU: 350W				
	◉MONITOR SIZE: at least 20 Inches, Panel: LED				
	◉ACC: VGA Cable & Power cord [ACC]				
	◉With Keyboard, Mouse, Mouse Pad and Speaker WIFI receiver				
	with licensed windows 10 home				
	with at least 600VA UPS, 4 hours charging time				
116	Computer Keyboard, USB port	Piece	1	500.00	500.00
117	Computer Monitor at least 19"	Piece	1	5,000.00	5,000.00
118	Computer Mouse, USB port	Pieces	2	400.00	800.00
119	**Computer Printer Continous, USB Port, w/ free Ink**	Unit	1	7,000.00	7,000.00
	◉Max. Print Resolution: 720x720 dpi (w/ Variable-Sized Droplet Technology)				
	◉Paper Size: Letter, A4, Legal				
	◉Print Speed: 8.5cpm (black), 4 5cpm (colored)				
	◉Double-Sided Printing: Manual				
	◉USB: USB 2.0				
	◉Operating System Compatability Edition: Window XP/XP Professional x64/				
	◉Vista/7/8/8.1, Mac OS x 10.5.8, 10.6x, 10.7.x, 10.9.x				
	◉Number of Paper Trays: 1				
	◉Size: 18.1" x 8.5" x 5.1"				
	◉Weight: 2.4kgs				
	◉with Free Continue Inks				
120	**Laptop**	Unit	1	60,000.00	60,000.00
	◉Processor Speed: 2.90 GHz (Base Frequency 2.30 GHZ)				
	◉Graphic Processing Type: Integrated/On-Board Graphics				
	◉Features: 10/100 LAN Card, Bluetooth, Built-in Microphone,				
	◉Built-in Webcam, Multi-touch trackpad, Widescreen display, Wi-fi				
	◉Hard Drive Capacity: at least 500GB				
	◉GPU: Intel HD Graphics 5500				
	◉Storage Type: SSD (Solid State Drive)				
	◉RAM Size: 8 - 16 GB				
	◉Processor: Intel Core i5 at least 10th Gen.				
	◉SSD Capacity: 256 GB - 500 GB				
	◉Screen Size: 14.1 in Windwos Package				
	◉Maximum Resolution: 1366x768				
	◉Operating System: Windows 10				

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	◙Connectivity: Gigabit Ethernet, HDMI, USB 2.0, USB 3.0, SC Card Slot,				
	◙Micro SD slot, microSD Card slot				
	◙Bundle Description: Bundle includes genuine Charger cable w/ new battery installed.				
	◙Windows 10 License COA included				
121	**UPS 500 watts, Universal**	Unit	1	**4,000.00**	**4,000.00**
	◙Description:, 600VA, 220V, AVR Floor, Universal Socket, at most 4 hours charging time				
122	**Smart Television**	unit	5	**100,000.00**	**500,000.00**
	◙Screen Size: at least 65"				
	◙Resolution: 3,840 × 2,160				
	◙Screen Curvature: 4200R				
	◙Picture Engine: UHD Upscaling				
	◙Motion Rate: 120				
	◙PQI (Picture Quality Index): 1400				
	◙HDR (High Dynamic Range)				
	◙Dynamic Contrast Ratio: Mega Contrast				
	◙Micro Dimming: UHD Dimming				
	◙PurColor				
	◙Auto Depth Enhancer				
	◙Auto Motion Plus				
	◙Film Mode				
	◙Dolby Digital Plus, DTS Codec				
	◙Sound Output (RMS): 20W				
	◙Speaker Type: 2CH(Down Firing w/Bass Reflex)				
	◙Multiroom Link				
	◙Web Browser				
	◙Smart View				
	◙TV to Mobile – Mirroring				
	◙Mobile to TV – Mirroring				
	◙DLNA, 360 Video Player				
	◙WiFi Direct				
	◙Analog Clean View				
	◙Digital Broadcasting: ISDB-T				
	◙Analog Tuner: Yes				
	◙HDMI: 3; USB: 2; Component In (Y/Pb/Pr): 1				
	◙Composite In (AV): 1(Common Use for Component Y)				
	◙Ethernet (LAN): Yes				
	◙Digital Audio Out (Optical): 1				
	◙RF In (Terrestrial / Cable input): 1/1(Common Use for Terrestrial)/0				
	◙HDMI A / Return Ch. Support, HDMI Quick Switch, Wireless LAN Built-in, Anynet+ (HDMI-CEC)				
	◙Slim Type: Slim				
	◙Stand Type: V-Shape				
	◙Instant On: Yes				
	◙Processor: Quad Core				

Bidding No.: GOODS-21-11
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	◉Accessibility: Voice guide(AU English)/ Enlarge/ High contrast/ Learn TV Remote(AU English)				
	◉Digital Clean View, Auto Channel Search				
	◉Auto Power Off, Caption (Subtitle), Connect Share™ (HDD), ConnectShare™ (USB 2.0)				
	◉Embeded POP, EPG, Extended PVR, USB HID Support				
	◉Ultra Clean View, Eco Sensor				
	◉Power Supply: AC100-240V 50/60Hz				
	◉Power Consumption (Max): 265W				
	◉Package Size (WxHxD): 1617 x 980 x 255 mm				
	◉Set Size with Stand (WxHxD): 1460.3 x 907.2 x 369.1 mm				
	◉Set Size without Stand (WxHxD): 1460.3 x 845.8 x 131.1 mm				
	◉Package Weight: 36.70 kg				
	◉Set Weight with Stand: 28.30 kg				
	◉Set Weight without Stand: 26.1 kg				
	◉Accessory: Remote Controller, Batteries, Mini Wall Mount Support				
	◉Vesa Wall Mount Support, User Manual, E-Manual, Power Cable, Slim Gender Cable				
123	**LCD Projector**	pcs	5	**23,000.00**	**115,000.00**
	◉RGB Liquid crystal shutter				
	◉LCD Panel: 0.55 inch with MLA (D10)				
	◉Image: Colour Light Output				
	◉3,600 Lumen - 2,235 Lumen (economy) iin accordance with IDMS15.4				
	◉White Light Ouput: 3m600 Lumen-2,235 Lumen (economy) in accordance with ISO 21118:2012				
	◉Resolution: XGA, 1024 x 768, 4:3				
	◉Aspect Ratio: 4:3; Contrast Ratio: 15,000: 1				
	◉Light source: Lamp; Lamp: UHE, 210 W, 6,000 h durability, 10,000 h durability (economy mode)				
	◉Keystone Correction: Auto vertical: +30o, Manual horizontal + 30o				
124	**Photocopying Machine**	pcs	8	**160,000.00**	**1,280,000.00**
	◉Print Type:Colour				
	◉User Interface: 10.1 inch TFT LCD WSVGA Colour Touchpanel				
	◉Product Environment: Small to Medium Office/Workgroup				
	◉Original Paper Size: A3				
	◉Printed Paper Size: SRA3				
	◉Standard Paper Capacity: 1,200				
	◉Maximum Paper Capacity: 2,300				
	◉Paper Weight: 300gsm				
	◉Output Capacity: 250 (Max with finisher: 3,450)				
	◉Warm-up Time: Quick start 4 seconds - from Power on: <10 seconds				
	◉Resolution (Equivalent): 600 x 600, 1200 x 1200 (Half-speed)				

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	◙Memory: 3GB RAM				
	◙HDD Capacity: Standard: 320 GB Optional: 1 TB				
	◙Dimension (W x D x H): 565 x 722 x 887 mm				
	◙Weight (kg): 80.6				
125	**Laptop**	pcs	1	**60,000.00**	**60,000.00**
	◙OS: Licensed Windows 10				
	◙Processor: Intel Corei7 IM 55000 10th gen CPU				
	◙RAM: 8 GB				
	◙System: 64 bit OS x 64 based processor				
	◙Wifi				
	◙bluetooth				
	◙Camera				
	◙SSD: 512GB				
	◙CPU 2.46Hz or Higher				
126	**Laptop**	pcs	5	**45,000.00**	**225,000.00**
	◙IntelCorei5-1035G1 Processor 1.0 GHz				
	◙6M Cache, up to 3.60 GHz or higher				
	◙OS: Licensed Windows 10 Home; Memory: 4GB Onboard memory				
	◙1 x SO-DIMM socket; Display: 14.0" (16.9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC				
	◙Video Processor: NVIDIA GeForce MX330, with 2GB GDDR5 VRAM; Storage: 512GB Pcle Gen3x2 SSD				
127	**Desktop Computer set with UPS and Printer**	pcs	11	**61,363.63**	**675,000.00**
	◙CPU - Intel Core i5 8700 H110M FCLGA1151 or higher				
	◙RAM - 8GB; HDD - 1TB; SSD - 512GB; with DVDRW + SATA Optical Drive				
	◙Monitor - 24" led monitor				
	◙Mouse & Keyboard - USB connectivity				
	◙PSU - 700w; Licensed Windows 10 Operating System				
	◙UPS 800VA; Tower ATX CPU Casing				
	◙UPS - Back-Up 625,battery back-up/surge protection				
	◙Printer - 3n1 (can print vellum board type of paper, scan & copy)				
	◙Maximum paper size - 8.5" x 44"Ink tank printer system (color black, magenta, cyan, yellow)				
	◙USB connectivity				
128	**DOCUMENT CAMERA**	unit	1	**34,500.00**	**34,500.00**
	• Pixels: 2MP (1920 x 1080 pixels)				
	• Camera Sensor: 1/2.7 inch CMOS Sensor				
	• Resolution: Up to Full HD (1080p)				
	• Zoom: 10x Digital Zoom, 12x Optical Zoom				
	• Key Benefit: Desktop document camera with optical zoom				
	• Effective Pixels: Effective Pixels				
	• Camera Sensor: 1/2.7 inch CMOS Sensor				
	• Frame-Per-Second (FPS): 30				

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	• Output Resolution: Up to Full HD (1080p)					
	• Zoom: 10x Digital, 12x Optical					
	• Built-in Microphone: Yes					
	• AV Recording: Yes					
129	**LCD PROJECTOR, XGA (1024 X 768)**	unit	1	**27,000.00**	**27,000.00**
	Projection System: LCD Technology, RGB liquid crystal shutter					
	Projection Method: Front/rear/ceiling mount					
	Pixel Number: at least 786,432 dots (1024 x 768) x 3					
	Color Brightness: 3.600 lumen- 2.235 lumen (economy) In accordance with IDMS15.4					
	Aspect ratio: 4:3					
	Lamp Life: ECO Mode up to 5000 hrs					
	Normal Mode up to 4000 hrs					
	Projection Distance Wide/Tele: 1,8 m - 2,17 m (60 inch screen)					
	Keystone Correction: Manual					
	USB Plug 'n Play:Compatible w/ PC and MAC computers					
	Conrast Ratio: 15.000 : 1					
	Color Reproduction: 16.77 million colors					
				Total ABC (this project):	**6,129,030.00**

Sgnd
DILBERTO O. FERRAREN
BAC Chairman