



**BID BULLETIN 01**

**Date:** 07 May 2021

**Project Title:** Supply and Delivery of Office and I.T. Equipment & Supplies (GOODS-21-22)

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

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

**I. LIST OF REQUIREMENTS**

<b>(1st Envelope) TECHNICAL COMPONENT ENVELOPE</b>	
<i>Legal Documents</i>	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate (SEC, DTI or CDA)
	b. Mayor's/Business Permit
	c. Tax Clearance
<i>Technical Documents</i>	
2	Statement of All On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least <b>50%</b> of the ABC or Php <b>1,828,564.50</b> )
	Or
	Statement of at least two (2) similar completed contracts w/ total amount of at least Php <b>1,828,564.50</b> and the largest of which should be at least Php <b>914,282.25</b> .
4	Bid Security
5	Technical Specifications
6	SCHEDULE of Requirements/Production and delivery schedule
7	Manpower Requirements
8	After Sales service/parts from acceptance of delivered goods (at least 1 year for equipment and 3 months for supplies)
9	Original Duly Signed Omnibus Sworn Statement
<i>Financial Documents</i>	
10	The Supplier's Audited Financial Statements
11	Net Financial Contracting Capacity (at least <b>PhP 3,657,129.00</b> )
	Or
	Committed Line of Credit (at least Php <b>365,712.90</b> )
<b>(2<sup>nd</sup> Envelope) FINANCIAL COMPONENT ENVELOPE</b>	
12	Original of duly signed and accomplished Financial Bid Form
13	Original of duly signed and accomplished Price Schedule(s)



**Please take note:**

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:

<b>Document</b>	<b>Filename (in PDF form)</b>
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](mailto:jessamine.ecleo@vsu.edu.ph) before the deadline.

**III. Changes in the Bidding Documents**

**A.**

Original	Amendment
<p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>27 April – 17 May 2021 until 8:30 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (PhP 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p>	<p>5. A complete set of Bidding Documents may be acquired by interested Bidders on <i>27 April – 17 May 2021 until 8:30 AM</i> from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of Five Thousand Pesos (PhP 5,000.00). The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.</p> <p>The Bidders may also deposit the applicable fee to Visayas State University Landbank Account:</p> <p><b>Account Name:</b> Visayas State University Fund 164</p> <p><b>Account Number:</b> <a href="#">3572-1000-13</a></p> <p>And send the deposit slip to Ms. Jessamine C. Ecleo at <a href="mailto:jessamine.ecleo@vsu.edu.ph">jessamine.ecleo@vsu.edu.ph</a></p>



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

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

Item No.	Item Description & Specifications	Unit	Qty	ABC/Unit	Total ABC
1	Toner, NPG 67	pcs	2	17,000.00	34,000.00
	☑Yellow for Canon C3320 Image Runner Advance				
	☑(photocopier. Printer/scanner) machine				
2	Laptop 14" (i5)	unit	11	44,000.00	484,000.00
	☑Processor:				
	◀Intel Core i5-at least 10th Generation Processor				
	◀1.0 GHz 6M Cache				
	◀up to 3.60 GHz or higher				
	☑Operating system:				
	◀Licensed Windows 10 Home				
	☑Memory:				
	◀at least 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				
	☑Storage:				
	◀512GB PCIe Gen3 x2 SSD				
	With free backpack				
3	Two-Way Radio Walkie Talkie	sets	2	5,000.00	10,000.00
	☑NTC Registered				
	☑Frequency Range: UHF 400-470 MHz				
	☑RF Power: ≤ 5 W				
	☑Channel Capacity: 16 Channel				
	☑Spacing: 25 KHz				
	☑Voltage Operated: 3.7 V				
	☑Battery: 1500 MAH Li-ion				
	☑Frequency stability: ±. 5ppm				
	☑Antenna Impedance: 50Ω				
	☑RF Output Power: 3 W				
	☑RF Output Power: 3 W				
	☑Modulation: F3E				
	☑Spurious Emission: ≤65dB				
	☑Audio Distortion: ≤5%				
	☑Transmitting Current: ≤1. 3A				
4	Ink, HP Design jet T770	set	1	22,000.00	22,000.00
	☑HP 72 Photo black				
	☑Cyan, Magenta, Gray, Matte Black				
	☑6 colors bundle				
5	Desktop Microphone	pcs	4	650.00	2,600.00
	☑Compatible with:				



	◀Desktop/Notebook/PC				
	◀Windows 7-10 compatible				
	☑Pickup: 6mm Condenser Mic				
	☑Microphone Directivity: Omnidirectional				
	☑Sensitivity: -58db±3db				
	☑Signal-to-noise Ratio: ≤50dB				
	☑Cable Length: 2.5m				
	☑Type: 3.5mm Plug				
6	Desktop Computer (i7), Assembled, No Monitor	unit	1	50,000.00	50,000.00
	☑Processor:				
	◀Intel Core i7 10th Generation or higher				
	☑Motherboard:				
	◀Intel Ultra Durable motherboard compatible with processor				
	◀Gaming LAN				
	◀Anti-Sulfur Resistor				
	◀LGA-1151				
	☑Memory:				
	◀16GB DDR4 2400 DIMM Desktop Memory				
	☑SSD: at least 500GB				
	☑Video Card: Nvidia GTX 1650				
	☑Casing with Power Supply				
	☑Operating System:				
	◀Genuine Windows 10 Home (OEM)				
	☑11.1 Volts 58 Whr 6 Cell Li-ion				
8	Desktop Computer (i3) Assembled	set	2	30,000.00	60,000.00
	☑Processor:				
	◀Intel Core i3-at least 10th Generation Processor				
	◀(9M Cache, up to 4.10 GHz) or higher				
	☑Motherboard:				
	◀Intel Ultra Durable motherboard compatible to processor				
	◀Gaming LAN				
	◀Anti-Sulfur Resistor				
	◀LGA-1151				
	Memory:				
	◀8GB DDR4 2400 DIMM Desktop Memory				
	☑SSD: at least 240GB				
	☑Keyboard and Mouse Combo				
	☑Casing with Power Supply				
	☑Monitor: at least 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				
9	Ink, Epson 003,Genuine Black 65mL	btl	17	350.00	5,950.00
10	Ink, EPSON 003,Genuine Cyan 65mL	btl	14	350.00	4,900.00
11	Ink, EPSON 003,Genuine Magenta 65mL	btl	14	350.00	4,900.00
12	Ink, EPSON 003,Genuine Yellow 65mL	btl	14	350.00	4,900.00
13	Ink, Epson, genuine (C) T664, 70 ml	pcs	10	350.00	3,500.00



14	Ink, Epson, genuine (M) T664, 70 ml	pcs	10	350.00	3,500.00
15	Ink, Epson, genuine, (Y) T664, 70 ml	pcs	10	350.00	3,500.00
16	Ink, Epson, genuine, (BK) T664, 70 ml	pcs	23	350.00	8,050.00
17	Mouse, Wired, Optical, USB	pcs	9	210.00	1,890.00
	☑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				
18	USB Hub, 4 gangs	pc	1	250.00	250.00
19	Unifi 500W PoE+ Switch	unit	1	35,000.00	35,000.00
	☑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				



	<ul style="list-style-type: none"> <li>☑Certifications CE, FCC, IC</li> </ul>				
	<ul style="list-style-type: none"> <li>☑PoE Interfaces PoE+ IEEE 802.3af/at:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀(Pins 1, 2+; 3, 6-)</li> </ul>				
	<ul style="list-style-type: none"> <li>◀24VDC Passive PoE (Pins 4, 5+; 7, 8-)</li> </ul>				
	☑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				
	<ul style="list-style-type: none"> <li>◀with existing VSU Unifi Controller</li> </ul>				
	☑1 year warranty				
<b>20</b>	Wireless Access Point	unit	2	9,900.00	19,800.00
	<ul style="list-style-type: none"> <li>☑Networking Interface:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀(1) 10/100/1000 Ethernet Port</li> </ul>				
	☑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				
	<ul style="list-style-type: none"> <li>◀2.4 GHz</li> </ul>				
	<ul style="list-style-type: none"> <li>◀5 GHz</li> </ul>				
	<ul style="list-style-type: none"> <li>◀23 dBm</li> </ul>				
	<ul style="list-style-type: none"> <li>◀26 dBm</li> </ul>				
	☑MIMO				
	<ul style="list-style-type: none"> <li>◀2.4 GHz</li> </ul>				
	<ul style="list-style-type: none"> <li>◀5 GHz</li> </ul>				
	<ul style="list-style-type: none"> <li>◀2x2</li> </ul>				
	<ul style="list-style-type: none"> <li>◀4x4</li> </ul>				
	☑Radio Rates				
	<ul style="list-style-type: none"> <li>◀2.4 GHz</li> </ul>				
	<ul style="list-style-type: none"> <li>◀5 GHz</li> </ul>				
	<ul style="list-style-type: none"> <li>◀300 Mbps</li> </ul>				
	<ul style="list-style-type: none"> <li>◀1733 Mbps</li> </ul>				
	☑Antennas				
	<ul style="list-style-type: none"> <li>◀2.4 GHz</li> </ul>				
	<ul style="list-style-type: none"> <li>◀5 GHz</li> </ul>				
	<ul style="list-style-type: none"> <li>◀(2) Single-Port,</li> </ul>				
	<ul style="list-style-type: none"> <li>▶ Single-Polarity Antennas, 2.8 dBi each</li> </ul>				
	<ul style="list-style-type: none"> <li>◀(2) Single-Port,</li> </ul>				
	<ul style="list-style-type: none"> <li>▶ Dual-Polarity Antennas, 3 dBi each</li> </ul>				
	☑Wi-Fi Standards				
	<ul style="list-style-type: none"> <li>◀802.11 a/b/g/n/r/k/v/ac/ac-wave2</li> </ul>				
	☑Wireless Security:				
	<ul style="list-style-type: none"> <li>◀WEP</li> </ul>				
	<ul style="list-style-type: none"> <li>◀WPA-PSK</li> </ul>				
	<ul style="list-style-type: none"> <li>◀WPA-Enterprise (WPA/WPA2, TKIP/AES)</li> </ul>				
	<ul style="list-style-type: none"> <li>◀802.11w/PMF</li> </ul>				
	☑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				
	◀& 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				
21	Uninterruptible Power Supply Battery Backup	unit	1	10,000.00	10,000.00
	☑1500VA/900w				
	☑6 battery backup sockets				
	☑USB, coax, phone/network, and serial ports				
	☑Automatic Voltage Regulation (AVR)				
	☑LCD screen				
	☑at most 4 hours charging time				
22	UTP Cable (300 meters per box)	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.				
23	Desktop System Unit Only	unit	4	15,000.00	60,000.00
	☑ (Pentium Gold G5400), Assembled				
	☑Intel Pentium Gold G5400 or higher				
	☑Intel Chipset Ultra durable Motherboard <b>compatible with processor</b>				
	☑8 GB DDR4 Memory or higher				
	☑ <b>at least</b> 240 GB SSD				
	☑Casing with 500W PSU or higher				
	☑500W IC controlled AVR				
	☑Keyboard and mouse combo				
24	Micro 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)				





	<ul style="list-style-type: none"> <li>☑ Write speed:</li> <li>    ◀ 90 MB/s maximum (Burst)</li> </ul>				
	<ul style="list-style-type: none"> <li>☑ Write speed:</li> <li>    ◀ 30 MB/s Minimum</li> </ul>				
	☑ Built-in Write Protect Switch				
	☑ Durability:				
	◀ Shockproof				
	◀ Temperature Extremes				
	◀ waterproof				
	◀ X-ray Proof				
	☑ Opening Temperature:				
	◀ -25 to 85C				
<b>25</b>	Smart Phone, 128 GB ROM, 6GB RAM	unit	1	14,990.00	14,990.00
	☑ Super AMOLED				
	☑ 6.2 to 6.4 inches				
	☑ At least 1080 x 2400 pixels				
	◀ 20:9 ratio (~411 ppi density)				
	☑ Android 10, One UI 2.0 or higher				
	☑ Mediatek MT6768				
	◀ Helio P65 (12nm) or higher				
	☑ Octa-core (2x2.0 GHz Cortex-A75				
	◀ & 6x1.7 GHz Cortex-A55) or higher				
	☑ microSDXC (dedicated slot)				
	☑ Quad camera with At least 48 MP				
	◀ f/2.0, 26mm (wide)				
	◀ 1/2.0", 0.8µm				
	◀ PDA Fat least 8 MP				
	◀ f/2.2, 123°				
	◀ (ultrawide)				
	◀ 1/4.0"				
	◀ 1.12µmat least 5 MP				
	◀ f/2.4				
	◀ (macro)at least 5 MP				
	◀ f/2.4, (depth)				
	☑ At least 128GB storage, 6GB RAM				
	☑ Wi-Fi 802.11 a/b/g/n/ac				
	◀ dual-band				
	◀ Wi-Fi Direct, hotspot				
	☑ Yes, with A-GPS, GLONASS, GALILEO, BDS				
	☑ USB Type-C 2.0, USB On-The-Go				
	☑ At least Li-Po 5000 mAh, non-removable				
	☑ Fast charging at least 15W				
<b>26</b>	Computer Printer	unit	5	11,000.00	55,000.00
	☑ 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				
27	Speaker, for PC, 2.1 (Speaker with Subwoofer)	pc	1	2,000.00	2,000.00
	☑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				
28	External Hard Disk Drive	unit	2	5,500.00	11,000.00
	☑(Portable, 2TB), USB 3.0				
	☑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				
29	HDMI to HDMI cable	pc	1	500.00	500.00
	☑HDMI to HDMI cable/chord 1.8 meter long;				
30	Automatic Voltage Regulator	pcs	2	8,000.00	16,000.00
	☑Capacity: 5000 VA				
	☑Input Voltage: 160-240 V				
	☑Output Voltage: 110/220 V				
	☑Phase: Single				
	☑Control System: Servo-Motor Control				
	☑Response Time:				
	◀within 4sec against 10%				
	◀Input Fluctuation				
	☑Overload Protection				
	☑Time Delay Function				
	☑Analog Volt Meter and Ammeter				
31	Computer Printer	unit	1	14,900.00	14,900.00
	☑3-in-1				
	◀Print, Scan & Photocopy				
	☑Print Method:				
	◀On-demand ink jet (piezoelectric)				
	☑Minimum Ink Droplet Volume:3 pl				
	☑Print Direction:				
	◀Bi-directional printing				
	◀Uni-directional printing				



	<ul style="list-style-type: none"> <li>☑ Nozzle Configuration:</li> <li>    ◀ 180 nozzles Black</li> <li>    ◀ 59 nozzles per colour (C,M,Y)</li> <li>☑ Maximum Resolution:</li> <li>    ◀ 5760 x 1440 dpi</li> <li>    ◀ (with Variable-Sized Droplet Technology)</li> <li>☑ USB:USB 2.0</li> <li>☑ Network:</li> <li>    ◀ Wi-Fi IEEE 802.11b/g/n, Wi-Fi Direct</li> <li>☑ Network Protocol:</li> <li>    ◀ TCP/IPv4, TCP/IPv6</li> </ul>				
<b>32</b>	AVR, 500W (IC Controlled)	unit	2	500.00	1,000.00
	<ul style="list-style-type: none"> <li>☑ Power Output: 500 W</li> <li>☑ Power Factor Correction (PFC):</li> <li>    ◀ Active PFC with Value of 0.98</li> <li>☑ Fan Type:</li> <li>    ◀ 1 x 120 mm Smart</li> <li>    ◀ and Silent Fan Control 22 dBA</li> <li>☑ Safety Standards:</li> <li>    ◀ FCC, CB, CCC, TUV, CE, C-tick,</li> <li>    ◀ EMI, EMC, S-Intertek, CPT-AB15</li> </ul>				
<b>33</b>	Flash Drive, at least 32GB USB 3.0	pcs	52	800.00	41,600.00
<b>34</b>	Netbook Laptop, Intel Celeron	unit	1	15,000.00	15,000.00
	<ul style="list-style-type: none"> <li>☑ Intel® Celeron® Processor N3350</li> <li>    ◀ up to 2.4GHz</li> <li>☑ Intel HD Graphics 500 GPU</li> <li>☑ 14.1 inch HD resolution</li> <li>☑ 4GB RAM for Advanced Multitasking</li> <li>☑ 128GB EMMC Storage Capacity</li> <li>☑ 38000mWh Large Battery</li> <li>☑ Mini-HDMI Output</li> <li>☑ &amp; Two standard USB 3.0 Slot</li> </ul>				
<b>35</b>	Computer Keyboard USB	pcs	4	400.00	1,600.00
	<ul style="list-style-type: none"> <li>☑ Standard Keyboard with 104 Keys</li> <li>☑ USB Connection</li> <li>☑ Low Profile Key Caps</li> <li>☑ Minimum Key Noise</li> <li>☑ Laser Printing for Key Layout</li> <li>☑ Spill Resistant Design</li> </ul>				
<b>36</b>	EPSON L220 Ink Cartridge Black	btls	12	350.00	4,200.00
<b>37</b>	Laptop 14" (i3)	unit	1	33,000.00	33,000.00
	<ul style="list-style-type: none"> <li>☑ Processor :</li> <li>    ◀ Intel Core i3-at least 10th Generation Processor 4M Cache</li> <li>    ◀ up to 3.40 GHz or higher</li> <li>☑ Operating System :</li> <li>    ◀ Licensed Windows 10 Home</li> <li>☑ Memory :</li> <li>    ◀ 4GB Onboard memory</li> <li>    ◀ 1 x SO-DIMM socket</li> <li>    ◀ total up to 8 GB SDRAM</li> <li>☑ Display : 14.0" (16:9)</li> <li>    ◀ LED-backlit HD (1366x768)</li> <li>    ◀ 60Hz Anti-Glare</li> </ul>				



	◀Panel with 45% NTSC				
	☑Graphics :				
	◀Integrated Intel UHD Graphics				
	☑Storage :				
	◀512GB PCIe Gen3 x2 SSD				
	☑Networking :				
	◀Integrated Wi-Fi 5 (802.11 ac)				
	◀Bluetooth 5.0				
	☑Battery :				
	◀2 -Cell 32 Wh lithium-polymer battery				
38	Computer Webcam, <b>USB</b>	pcs	7	1,000.00	7,000.00
39	Uninterruptible Power Supply, 1000 VA	unit	1	6,000.00	6,000.00
	☑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				
40	EPSON L220 Ink Cartridge Cyan	btls	2	350.00	700.00
41	EPSON L220 Ink Cartridge Magenta	btls	2	350.00	700.00
42	Digital Multimeter	pc	2	7,000.00	14,000.00
	☑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 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				
	◀. 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				



	<ul style="list-style-type: none"> <li>☑Capacitance: 50n/500n/5μ/50μ/100μF</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Frequency: 5/50/500/5k/50k/100kHz</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Continuity: Buzzer sounds and LED lights</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ up at between 0Ω and 85Ω (±45Ω)</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ Open voltage: Approx. 0.4V</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Diode test: Open voltage: approx. 1.5V</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Battery Check:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ Approximate value (30Ω load)</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ 1.5V battery only</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Display numeral display: 4000</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Sampling rate: 3 times/sec.</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Bandwidth: 40~400Hz (Sine wave)</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Fuse:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ 0.5A/1000V 30kA Φ6.35×32mm</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ 10A/1000V 30kA Φ10×38mm</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Battery: R6Px2</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Battery life:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ Approx. 400h (manganese battery)</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ at DCV range</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Safety: IEC61010CAT. III 600V/CAT. II 1000V</li> </ul>				
43	Video Card	unit	1	9,000.00	9,000.00
	<ul style="list-style-type: none"> <li>☑CUDA Cores at least 768</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Core Speed: at least 1290 MHz</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Boost Speed: at least 1392 MHz</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Memory Size: at least 4GB GDDR5</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Memory Interface: at least 128-bit</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Memory Frequency: at least 7 Gbps</li> </ul>				
	<ul style="list-style-type: none"> <li>☑TDP: at least 75 Watts</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Multi-Screen Support: Yes</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Resolution: 7680X4320@60hz Digital</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Bus Type: PCI Express 3.0 16x</li> </ul>				
44	Printer	unit	2	11,000.00	22,000.00
	<ul style="list-style-type: none"> <li>☑Tank Ink System</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Printer Type:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ Print, Scan and Copy</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Scanner Type:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ Flatbed colour image scanner</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Sensor Type: CIS</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Optical Resolution:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ 600 x 1200 dpi</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Copy Speed:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ Maximum Copies from Standalone: 20 copies</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Maximum Copy Size: A4, Letter</li> </ul>				
	<ul style="list-style-type: none"> <li>☑ISO 29183</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ A4 Simplex Flatbed (Black / Colour):</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Up to 7.0 ipm / 1.7 ipm</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Max Copy Resolution:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ 300 x 300 dpi</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Paper Handling:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ Up to 20 sheets-Premium Glossy Photo Paper</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ 10 sheets-Envelope, 30 sheets-Postcard</li> </ul>				
	<ul style="list-style-type: none"> <li>☑Output Capacity:</li> </ul>				
	<ul style="list-style-type: none"> <li>◀ Up to 30 sheets, A4 plain paper</li> </ul>				



	◀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 (C,Y,M)				
	☑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				
46	UPS, at least 500 w	pc	1	2,550.00	2,550.00
47	LCD Projector, XGA (1024x768)	unit	1	27,000.00	27,000.00
	☑Power Consumption				
	◀282 Watt, 203 Watt (economy)				
	◀0.2 Watt (standby)				
	◀On mode power consumption as defined				
	◀in JBMS-84 257 Watt				
	☑Supply Voltage				
	◀AC 100 V - 240 V, 50 Hz - 60 Hz				
	☑Product Dimensions				
	◀302 x 237 x 82 mm (Width x Depth x Height)				
	☑Product weight				
	◀2.5 kg				
	☑Noise Level				
	◀Normal: 37 dB (A) - Economy: 28 dB (A)				
	☑Supported Temperature				
	◀Operation 5° C - 35° C, Storage -10° C - 60° C				
	☑Supported Humidity				
	◀Operation 20% - 80%, Storage 10% - 90%				
	☑Included Software				
	◀iProjection				
	☑Options				
	◀Air filter ELPAF38				
	☑Loudspeaker				
	◀2 Watt				
	☑What's in the box				
	◀Carrying Case				
	◀Computer cable				
	◀Main unit				
	◀Power cable				



	◀Quick Start Guide				
	◀Remote control incl. batteries				
	◀User manual (CD)				
	◀Warranty card				
	▣Room Type / Application				
	◀Home Office				
	◀Home Photo				
	◀Streaming				
	◀TV & Box sets				
	▣Positioning				
	◀Ceiling Mounted, Desktop				
	▣Colour				
	◀White				
48	Cartridge Ribbon, Genuine, Epson FX-1170	bx	2	600.00	1,200.00
49	Computer Printer Ink, HP680 Cartridge, Black	pcs	10	500.00	5,000.00
50	Computer Printer Ink, HP680 Cartridge, Colored	pcs	10	500.00	5,000.00
51	Computer Printer Ink, HP678 Cartridge, Black	pcs	12	500.00	6,000.00
52	Computer Printer Ink, HP678 Cartridge, Colored	pcs	12	500.00	6,000.00
53	Computer Printer Ink, HP704 Cartridge, Black	pcs	50	500.00	25,000.00
54	Computer Printer Ink, HP704 Cartridge, Colored	pcs	50	500.00	25,000.00
55	Computer Ink	pcs	5	3,800.00	19,000.00
	◀HP Laserjet P1102				
	◀Color Black 85A				
56	Ink, Epson, Genuine, (BK) T6641, 70ml	btls	11	400.00	4,400.00
57	Ink, Epson, Genuine, (C) T6642, 70ml	btls	11	400.00	4,400.00
58	Ink, Epson, Genuine, (M) T6643, 70ml	btls	11	400.00	4,400.00
59	Ink, Epson, Genuine, (Y) T6644, 70ml	btls	11	400.00	4,400.00
60	<b>Wi-Fi Duplex All-in-One Ink Tank Printer</b>	unit	1	15,000.00	15,000.00
	▣Printer Type:				
	◀Print, Scan & Copy				
	▣Print Method:				
	◀On-demand inkjet (piezoelectric)				
	▣Minimum Ink Droplet Volume:				
	◀3 pl				
	▣Printer Language:				
	◀ESC / P-R				
	▣Print Direction:				
	◀Bi-directional printing, Uni-directional printing				
	▣Nozzle Configuration:				
	◀180 nozzles Black				
	◀59 nozzles per colour (Cyan, Magenta, Yellow)				
	▣Maximum Resolution:				
	◀5760 x 1440 dpi				
	▶ (with Variable-Sized Droplet Technology)				
	▣Automatic 2-sided Printing:				
	◀Yes (up to A4)				
	▣Print Speed				
	◀Photo Default - 10 x 15 cm / 4 x 6 " *2:				
	▶ Approx. 69 sec per photo (Border) *1				
	▶ Approx. 92 sec per photo (Borderless) *1				
	◀Draft, A4 (Black / Colour):				
	▶ Up to 33 ppm / 15 ppm *1				
	◀ISO 24734, A4 Simplex (Black / Colour):				



	▶ Up to 10.5 ipm / 5.0 ipm *1				
	◀ISO 24734, A4 Duplex (Black / Colour):				
	▶ Up to 6.0 ipm / 4.0 ipm *1				
61	Toner, NPG 67	pcs	3	14,000.00	42,000.00
	■Black for Canon C3320 Image Runner Advance				
	■(photocopier, printer/scanner) machine				
62	Toner, NPG 67	pcs	2	17,000.00	34,000.00
	■Cyan for Canon C3320 Image Runner Advance				
	■(photocopier, printer/scanner) machine				
63	Toner, NPG 67	pcs	2	17,000.00	34,000.00
	■Magenta for Canon C3320 Image Runner advance				
	■(photocopier, printer/scanner) machine				
64	External Hard Disk Drive (Portable, 1TB), USB 3.0	unit	3	3,800.00	11,400.00
65	<b>Desktop Computer (Assembled)</b>	unit	1	250,000.00	250,000.00
	■Processor: AMD Ryzen 9 5900X				
	■Graphics coprocessor: NVIDIA GeForce RTX 3090				
	■Chipset: AMD X570 Chipset				
	■Memory: 16GB DDR4-3200 LO-DIMM x 2				
	■SATA: 8 x SATA 6.0Gb/s ports				
	■Storage:				
	◀2TB SATA 7200RPM 3.5" HDD				
	◀1TB M.2 NVMe™ PCIe® 3.0 Performance SSD				
	■Operating System: Licensed Windows 10 Pro				
	◀Front I/O Ports:				
	◀2x USB 3.2 Gen 1 Type-A				
	◀2x USB 3.2 Gen 1 Type-C				
	◀1x Headphone				
	◀1x Microphone				
	■Rear I/O Ports:				
	◀4x USB 3.2 Gen 1 Type-A				
	◀1x USB 3.2 Gen 2 Type-C				
	◀3x USB 3.2 Gen 2 Type-A				
	◀1x Mic-in				
	◀1x Rear Speaker Out				
	◀1x Center / Sub Woofer				
	◀1x Front Speaker Out (Line Out)				
	◀1x Line-in				
	◀1x S/PDIF-Out				
	◀1x RJ45 Gigabit Ethernet				
	◀2x HDMI-Out				
	◀1x DisplayPort				
	■Expansion Slots:				
	◀2 x PCIe® 4.0 x1				
	◀3 x PCIe® 4.0 x16				
	◀2 x M.2 connector for SSD				
	◀4 x DDR4 U-DIMM Slots				
	■Audio: SupremeFX S1220A CODEC				
	■Network and communication: Wi-Fi 5 (802.11ac)+Bluetooth 5.0 (Dual band) 2*2				
	■Power Supply: 700W 80 PLUS (GOLD)				
	■Weight: 15.0 kg				
	■Dimensions (W x D x H): 27.90 x 43.30 x 50.10 cm				
	■VGA Installation Type: Vertical				
	■Monitor: 34" Ultra WQHD Monitor				





<b>66</b>	<b>Smart Television</b>	unit	4	75,000.00	300,000.00
	☑Screen Size: 65"				
	☑Resolution: 3,840 × 2,160				
	☑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				
	☑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), Embedded 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				
<b>68</b>	<b>Laptop</b>	unit	1	64,000.00	64,000.00
	☑OS: Licensed Windows 10				
	☑Processor: Intel Corei7 at least 10th gen CPU				
	☑RAM: at least 8 GB				



	<ul style="list-style-type: none"> <li>☐System: 64 bit OS x 64 based processor</li> <li>☐Wifi, bluetooth, Camera</li> <li>☐HDD: 1 TB or Higher + 512 SSD or higher</li> <li>Weight: at most 1.85 kg.</li> <li>With free back pack</li> </ul>				
<b>69</b>	<b>All-in-One computer (Built-in components in the Monitor)</b>	unit	1	92,999.00	92,999.00
	<ul style="list-style-type: none"> <li>☐Display: 21.5-inch (diagonal) LED backlit display</li> <li>☐1920 by 1080 resolution with support for millions of colors</li> <li>☐Processor: 3.2GHz 6 core Intel Core i7, Turbo Boost up to 4.6GHz</li> <li>☐Memory: 16GB of 2400MHz DDR4 memory</li> <li>☐Storage: 256GB SSD with 1TB Fusion Drive</li> <li>☐Graphics: Radeon Pro 555X with 2GB of GDDR5 memory</li> <li>☐Video Support and Camera: FaceTime HD camera</li> <li>☐Simultaneously supports full native resolution on the built in display</li> <li>☐at millions of colors (21.5-inch)</li> <li>☐or 1 billion colors (21.5-inch 4K)</li> <li>☐and: One 5120 by 2880 (5K) external display at 60Hz</li> <li>☐with support for 1 billion colors</li> <li>☐or Two 3840-by-2160 (4K UHD) external displays</li> <li>☐at 60Hz with support for 1 billion colors</li> <li>☐or Two 4096 by 2304 (4K) external displays</li> <li>☐at 60Hz with support for millions of colors</li> <li>☐Thunderbolt 3 digital video output</li> <li>☐Native DisplayPort output over USB C</li> <li>☐Thunderbolt 2, HDMI, DVI,</li> <li>☐and VGA output supported using adapters (sold separately)</li> <li>☐Audio: Stereo speakers</li> <li>☐Microphone</li> <li>☐3.5mm headphone jack</li> <li>☐Connections and Expansion: 3.5mm headphone jack</li> <li>☐SDXC card slot</li> <li>☐Four USB-A ports</li> <li>☐Two Thunderbolt 3 (USB-C) ports with support for: DisplayPort</li> <li>☐Thunderbolt (up to 40 Gbps)</li> <li>☐USB 3.1 Gen 2 (up to 10 Gbps)</li> <li>☐Thunderbolt 2, HDMI, DVI,</li> <li>☐and VGA supported using adapters (sold separately);</li> <li>☐10/100/1000BASE-T Gigabit Ethernet (RJ-45 connector);</li> <li>☐Kensington lock slot; Input: Magic Keyboard</li> <li>☐Magic Mouse 2</li> <li>☐Configurable with Magic Keyboard with Numeric Keypad</li> <li>☐Configurable with Magic Trackpad 2; Wireless: Wi-Fi</li> <li>☐802.11ac Wi-Fi wireless networking</li> <li>☐IEEE 802.11a/b/g/n compatible</li> <li>☐Bluetooth; Bluetooth 4.2 wireless technology</li> <li>☐Electrical and Operating Requirements: Line voltage: 100V to 240V AC</li> <li>☐Frequency: 50Hz to 60Hz, single phase</li> <li>☐Operating temperature: 10° to 35° C</li> <li>☐Relative humidity: 5% to 90% noncondensing</li> <li>☐Operating altitude: tested up to 5,000 meters</li> </ul>				
<b>70</b>	<b>Desktop Computer Assembled</b>	unit	1	40,000.00	40,000.00
	<ul style="list-style-type: none"> <li>☐IntelCorei5-at least 10th generation Processor 1.0 GHz</li> <li>☐6M Cache, up to 3.60 GHz or higher</li> </ul>				



	<ul style="list-style-type: none"> <li>■ OS: Licensed Windows 10 Home</li> <li>■ Memory: at least 8GB Onboard memory</li> <li>■ Monitor: at least 21" LED-backlit FHD (1920x1080)</li> <li>■ ATX Casing with Power Supply</li> <li>■ USB Optical mouse and keyboard</li> <li>■ Storage: 512GB SSD + 1TB HDD</li> <li>■ 600VA UPS, at most 4 hours charging time</li> </ul>				
71	<b>LAPTOP</b>	unit	1	80,000.00	80,000.00
	<b>Display Retina Display</b>				
	- 13.3 inch (diagonal) LED-backlit display with IPS Technology: 2560 by 1600 native resolution at 227 pixels per inch with support for million of colors				
	- Supported scaled resolutions:				
	1680 by 1050				
	1440 by 900				
	1024 by 640				
	- 400 nits brightness				
	- Wide color (P3)				
	- True tone technology				
	<b>M1 chip</b>				
	- 8 core CPU with 4 performance cores and 4 efficiency cores				
	- 8 core GPU				
	- 16 core Neural Engine				
	<b>Battery and Power</b>				
	- Up to 15 hours wireless web				
	- Up to 18 hours Apple TV app movie playback				
	- Built in 49.9 watt hour lithium polymer battery				
	- 30W USB-C Power Adapter				
	<b>Charging and Expansion Two Thunderbolt/ USB 4 ports with support for:</b>				
	- Charging				
	- Display Port				
	- Thunderbolt 3 (up to 49Gb/s)				
	- USB 4 (up to 40Gb/s)				
	- USB 3.1 Gen 2 (up to 10Gb/s)				
	<b>Memory 512GB</b>				
	- 512GB unified memory				
	Configurable to				
	- 1TB or 2TB				
	<b>Keyboard and Trackpad Backlit Magic Keyboard with:</b>				
	- 78 (US) or 79 (ISO) keys including 12 function keys and 4 arrows keys in an inverted T arrangement				
	- Ambient light sensor				
	- Force Touch trackpad for precise cursor control and pressure sensing capabilities: enables Force clicks, accelerators, pressure sensitive drawing and Multi-Touch gestures				
	<b>Touch ID</b>				
	- Touch ID Sensor				
	<b>Wireless WiFi</b>				
	- 802.11 ax Wi-Fi 6 wireless networking				
	- IEEE 802.11 a/b/g/n/ac compatible				
	<b>Bluetooth</b>				
	- Bluetooth 5.0 wireless technology				
	<b>Camera</b>				
	- 720p Face Time HD camera				



	<b>Video Support – Simultaneously supports full native resolution on the built-in display at millions of colors and</b>				
	- One external display with up to 6K resolution at 60Hz				
	<b>Thunderbolt 3 digital video output</b>				
	- Native Display Port output over USB-C				
	- VGA, HDMI, DVI, and Thunderbolt 2 output supported using adapters				
	<b>Audio</b>				
	- Stereo speakers				
	- Wide stereo sound				
	- Support for Dolby Atmos playback				
	- Three-mic array with directional beamforming				
	- 3.5 mm headphone jack				
	<b>With free back pack</b>				
72	Programmable Logic Control (PLC) Trainer	pc	1	300,000.00	300,000.00
	☐Package should consist of PLC Module with PLC				
	☐Power Supply				
	☐Programming and Operating System and Cables				
	☐Installed with sensors				
	☐Control Circuits				
	☐Drivers and Protection Circuits				
	☐Includes important accessories such as cords				
	☐cables and softwares CD				
	☐Can perform different experiments				
	☐with different application related to Mechanical Engineering				
	☐and other related fields				
	☐Free training to at least (3) Faculty Members				
	☐With user and experiment manual and example exercises				
	☐With warranty and program of maintenance				
	☐Free installation and product should be ready to use				
73	Motor and Electrical Technology Trainer/Training Set for Educational Teaching Equipment	pc	1	300,000.00	300,000.00
	☐Covers Electro Mechanics				
	☐Electrical Machine and Drive				
	☐Small and Special Electric Machine				
	☐Motor Control				
	☐Relay Touch Control and Electrical Control				
	☐Suitable for motor and electrical technology training				
	☐Instrument and meters				
	☐Dedicated Power Supply				
	☐Motors and Experimental components				
	☐are connected by dedicated wires with removal bases				
	☐easy to extend for new functions				
	☐Internal and External Voltage				
	☐Current Leakage Protection device to ensure				
	☐the short circuit protection function of each power output				
	☐All the motors are specially designed				
	☐with characteristics of power saving				
	☐energy saving				
	☐low noise and etc.				
	☐Each power output is designed				
	☐with monitoring and short-circuit protection function				
74	Portable USB Logic Analyzer and Digital Pattern Generator with High Speed Adapter	pc	5	20,000.00	100,000.00



	<ul style="list-style-type: none"> <li>■ A combined logic analyzer and pattern generator instrument</li> <li>■ with features to allow to debug</li> <li>■ visualize and simulate digital signals</li> <li>■ for most embedded projects</li> <li>■ digital inputs and outputs can be connected to a circuit</li> <li>■ using simple wire probes or breadboard wires</li> <li>■ with impedance-matched probes that can be used</li> <li>■ to connect and utilize inputs and outputs</li> <li>■ for more advanced projects</li> <li>■ with logic analyzer, pattern generator</li> <li>■ digital inputs and outputs</li> <li>■ power supply and protocol analyzer</li> <li>■ with high speed adapter</li> <li>■ should include fly wire assembly</li> <li>■ and USB a to Micro-B scale</li> <li>■ Supports scripting interface</li> <li>■ allowing to create customize</li> <li>■ solution to more complex problems</li> <li>■ data can be exported to word &amp; other tools</li> </ul>					
75	Air Condition, Window Type, Inverter, 2HP, Standard size	pc	1	50,000.00	50,000.00	
	<ul style="list-style-type: none"> <li>■ at least 12,000 kJ/HrEER: at least 10.5 with remote control</li> </ul>					
76	Ceiling fan	pc	2	2,500.00	5,000.00	
	<ul style="list-style-type: none"> <li>■ Orbit typemetal blade 16"three speed controller</li> </ul>					
77	Duplicating Machine	unit	1	75,000.00	75,000.00	
	<ul style="list-style-type: none"> <li>■ copy printer</li> <li>■ fully-automatic one-drum stencil system</li> <li>■ 300x300 dpi, 60-90 sheets per minute,</li> <li>■ 220-240 V, 50-60 Hz, includes ink black</li> <li>■ master and cabinet</li> </ul>					
78	Document Scanner w/ ADF	unit	2	26,000.00	52,000.00	
	<ul style="list-style-type: none"> <li>■ Flatbed Colored Document Scanner</li> <li>■ Combining a flatbed scanner with the convenience of a 50-page ADF</li> <li>■ Quickly scan stacks of documents up to 8.5" x 14"</li> <li>■ Resolution: 1200 x 1200 dpi</li> </ul>					
79	Comb Binding ring Machine	pc	1	22,000.00	22,000.00	
	<ul style="list-style-type: none"> <li>■ for long Bond paper</li> <li>■ Punch Capacity: at least 15 sheets (80gsm)</li> <li>■ Bind Capacity: at least 380 sheets (80gsms)</li> <li>■ at least 24 holes</li> <li>■ Adjustable margin guide</li> <li>■ heavy duty,</li> <li>■ good quality</li> </ul>					
80	Water Dispenser, Cabinet type	pc	2	10,000.00	20,000.00	
	<ul style="list-style-type: none"> <li>■ Floor standingHot and cold functionplastic body</li> <li>■ high efficiency compressorthermally protected</li> </ul>					
81	Electric fan	pc	1	2,500.00	2,500.00	
	<ul style="list-style-type: none"> <li>■ Stand fan 16" metal bladeAdjustable heightthree speed controller</li> </ul>					
82	Air condition, Window type, Inverter, 2.5 HP, Standard Size	pc	2	50,000.00	100,000.00	
	<ul style="list-style-type: none"> <li>■ at least at least 24,000 BTUEER: at least 12.0With remote Control</li> </ul>					
	<b>REBIDDING</b>					
83	Ink cartridge Cannon Pixma 810 black	pcs	22	800.00	17,600.00	
84	Ink Cartridge Canon Pixma 811 Color	pcs	22	1,100.00	24,200.00	
85	Ink, Brother BTD60BK, Black	btls	20	400.00	8,000.00	



86	Ink, Brother BT5000C Cyan	btls	15	350.00	5,250.00
87	Ink, Brother BT5000M Magenta	btls	15	350.00	5,250.00
88	Ink, Brother BT5000Y Yellow	btls	15	350.00	5,250.00
89	Toner, NPG 67, Yellow for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pc	1	17,000.00	17,000.00
90	Surge suppressor 6 outlets	units	2	200.00	400.00
91	HP Laser Jet CP1025 color Imaging Drum	pcs	2	6,000.00	12,000.00
92	<b>Netbook Laptop, Intel Celeron</b>	unit	1	15,000.00	15,000.00
	■Intel® Celeron® Processor N3350 , up to 2.4GHz				
	■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				
93	<b>Printer Continuous, USB Port, w/ free Ink</b>	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 Compatibility 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				
				<b>Total ABC (for this project):</b>	<b>3,657,129.00</b>

*Sgnd*  
**DILBERTO O. FERRAREN**  
BAC Chairman