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

Project Title: *Supply and Delivery of IT Supplies and Equipment for VSU Main and Component Colleges (GOODS-20-47)*

Date: 30 September 2020

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

LIST OF ELIGIBILITY REQUIREMENTS

ELIGIBILITY AND TECHNICAL DOCUMENTS (1st Envelope)	
Eligibility Documents	
1	PhilGEPS Certificate of Registration (Platinum)
	or
	a. Registration Certificate
	b. Mayor's/Business Permit
	c. Tax Clearance
	d. Audited Financial Statements
2	Statement of On-Going Government & Private Contracts
3	Statement of Bidder's Single Largest Completed Contract (at least 50% of the ABC or P 3,675,318.00)
	or
	Statement of at least two (2) similar completed contracts w/ total amount of at least P 3,675,318.00 and the largest of which should be at least P 1,837,659.00.
4	Net Financial Contracting Capacity (at least P7,350,636.00)
Technical Documents	
5	Bid Security
6	Technical Specifications
7	SCHEDULE of Requirements/Production and delivery schedule
8	Manpower Requirements
9	After Sales service/parts (at least 1 year from acceptance of delivered goods)
10	Omnibus Sworn Statement
FINANCIAL DOCUMENTS (2ⁿᵈ Envelope)	
11	Bid Form

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).

I. 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. Audited Financial Statements	Audited Financial Statements
6. Statement of On-Going Government & Private Contracts	Statement of On-Going Contracts
7. Statement of Bidder's Single Largest Completed Contract	SLCC
8. Statement of at least two (2) similar completed contracts	Statement of Completed Contracts
9. Net Financial Contracting Capacity	NFCC
10. Bid Security	Bid Security
11. Technical Specifications	Technical Specifications
12. SCHEDULE of Requirements/Production and delivery schedule	Schedule of Requirements
13. Manpower Requirements	Manpower Requirements
14. After Sales service/parts	After Sales
15. Omnibus Sworn Statement	Omnibus Sworn Statement
16. Bid Form	Bid Form

3. Create two (2) folders that are password-protected. The first folder should contain all technical documents (Items 1-15 above, whichever are applicable). The second folder should contain the Bid Form (financial proposal).

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.

Original	Amendment
5. A complete set of Bidding Documents may be acquired by interested Bidders *on September 18 to October 08, 2020 until 8:59 AM* from the address 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 (P10,000.00)*	5. A complete set of Bidding Documents may be acquired by interested Bidders *on September 18 to October 08, 2020 until 8:59 AM* from the address 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 (P10,000.00)*
6. It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.	6. It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids. **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

II. Revised List of Goods and Technical Specifications

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

Item No.	D E S C R I P T I O N	Unit	Qty.	ABC (Pesos)	Total ABC (Pesos)
	FOR MAIN CAMPUS				-
	For Items No. 1 to 155 Delivery (FOB) is at VSU Main Campus				
1	1 Unit Assembled Desktop	set	1	37,000.00	37,000.00
	Intel Core i3 9400 or higher				-
	Support for 9th and 8th Generation intel® Core™-Delete				-
	Intel® H310 Express Chipset				-
	2 x DDR4 DIMM sockets supporting up to 32 GB of system memory				-
	Integrated Graphics Processor-Intel® HD Graphics support				-
	1 x PCI Express x16 slot, running at x16				-
	Realtek® ALC887 codec				-
	Realtek® GbE LAN chip (10/100/1000 Mbit)				-
	Micro ATX Form Factor; 22.6cm x 17.4cm				-
	Smart Fan 5 features Multiple Temperature Sensors and				-
	Hybrid Fan Headers with FAN STOP				-
	Anti-Sulfur Resistors Design				-
	8 GB DDR4				-
	240 GB SSD				-
	MicroATX compatible casing with 600W PSU				-
	Genuine Windows 10 Home 64-bit OEM				-
	21.5" IPS Monitor				-
	USB Keyboard and Optical mouse combo				-
2	**16-Port Gigabit Switch**	unit	1	3,000.00	3,000.00
	Unmanaged gigabit switch with 16 10/100/1000Mbps auto-negotiation RJ45 ports. Wire-speed forwarding rate of each port is up to 1000Mbps.Supports 9k Jumbo Frame. Complies with IEEE 802.3, IEEE 802.3u, IEEE 802.3ab, IEEE 802.3x Standard				-
3	At least 75" or 82"-delete Class HDR 4K UHD Smart QLED TV	unit	1	235,000.00	235,000.00
	Specs: Screen Size (Diagonal): 75" or 82"				-
	Panel Type: Quantum Dot LED-backlit LCD panel				-
	Aspect Ratio: 16:9				-
	Pixel Resolution: 3840 x 2160				-
	HDR Compatibility: HDR10, HDR10 + , Hybrid Log Gamma				-
	Video System: NTSC				-

	TV Tuner: ATSC, Clear QAM				-
	Input Ports: 4 x HDMI Type A				-
	1 x F - Type (RF Antenna)				-
	Output Ports: 1 x TOSLINK Optical (Digital Audio)				-
	Wi-Fi: Yes				-
	USB Ports: 2 x USB (Version Unspecified) Audio, Photo, Video); Ethernet: LAN; Control: RS-232C via 1/8" / 3.5 mm Input; Speaker - Power: 40 W Virtual Assistant Support: Samsung Bixby				-
	Supported Languages: English				-
	Wall Mounting: 600 x 400 mm				-
	Power Consumption: Maximum 345.0 W				-
	Typical: 125.0 W; Standby: 0.4 W				-
	AC Input Power: 120 VAC, 50 / 60 Hz				-
	Dimensions: 72.2 x 41.4 x 2.6" / 183.4 x 105.2 x 6.6 cm (without stand) 72.2 x 44.1 x 15.1" / 183.4 x 112 x 38.4 cm-delete (with stand)				-
	Stand Dimensions: 1 x 9 x 15.1" / 2.54 x 22.86 x 38.35 cm-delete				-
	Direct Full Array 8X; Quantum Processor 4K; Ultra Viewing Angle; Quantum HDR 12X; Up to 100% Color Volume with Quantum Dots; Intelligent Mode; One Remote; VoiSmart Things Compatible: Amazon Alexa and Google Assistant Compatibility via Future Firmware Update; Airplay 2 via Future Firmware Update; Dynamic Black Equalizer; FreeSync VRR for Reduce Lag Time and Tearing; Ambient Mode				-
	Additional Features: 4K Ultra HD Connected; Ultimate UHD Dimming; Motion Rate 240; Quantum Dot Color; Multiroom Link; Bluetooth headset support; Wi-Fi Direct; Smart Hub with Sports, Music, and TV Plus; Quad-core processor; Digital Clean View; Auto Channel Search; Auto Motion Plus; ConnectShare; Embedded POP; InstaPort S (HDMI Quick Switch); Anynet + HDMI-CEC; Closed captioning; Electronic program guide; V-Chip; Game Mode with Auto Game Mode, Game Motion Plus, Dynamic Black EQ, and Game Enhancer; USB HID Support; Eco sensor; Auto Power off; TV to mobile device miroring; Mobile device to TV mirroring via DLNA; AI Technology; 4K AI Upscaling				-
4	**All-in-one Color Printer** with printer, scanner, copier and fax, with ADF and wifi	unit	1	18,000.00	18,000.00
5	**ANTIVIRUS SOFTWARE**, at least 5 devices, 2 years	pcs	2	2,600.00	5,200.00
6	**ASSEMBLED DESKTOP**	unit	10	30,000.00	300,000.00
	Processor: Intel Core i3-9100F-delete 9th generation or higher 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: 240GB				
	Keyboard an Mouse Combo				
	Casing with Power Supply				
	Monitor: 18.5 inch, HD Ready (1366 X 768) TN Panel Connectivity Port: 1 VGA Port, 1 HDMI Port / Aspect Ratio: 16:9, Brightness (Typical): 200 cd/m2 / Refresh Rate: 60 Hz				
	Operating System: Genuine Windows 10 Home (OEM)				
	AVR: 500W IC controlled				
7	**Automatic Voltage Regulator (AVR)**, relay controlled, at least 500W, for Desktop computer	unit	1	1,500.00	1,500.00
8	Canon BK #GI-790	btls	10	400.00	4,000.00
9	Canon C #GI-790	btls	10	400.00	4,000.00
10	Canon M #GI-790	btls	10	400.00	4,000.00
11	Canon Refill ink black (GI 790)	bots	9	325.00	2,925.00
12	Canon Y #GI-790	btls	10	400.00	4,000.00
13	**CAT 6 UTP Cable, 305m/spool**	box	1	7,800.00	7,800.00
14	Cat6 Shielded Crimp Connector RJ45 8P8C STP Ethernet Network Cable Plug	pcs	30	20.00	600.00
15	**CCTV, Hikvision, Fixed Drone Camera** (VSU on same fleet), HD Video, POE, 0.01 Lux, 2MP, IP66, IR, vandal proof, must be compatible with Hikvision NVR server. (must be of same fleet of VSU CCTV)	units	30	3,500.00	105,000.00
16	**CCTV,Hikvision, PTZ camera, IR Speed Dome, DS-2DE4220W-AE**, complete with wall mounting bracket, vandal proof, IP66 (same fleet of VSU cctv camera and must be compatible with Hikvision system)	units	4	20,000.00	80,000.00
17	Cellular Phone	pcs	3	999.00	2,997.00
18	**Cisco VOIP Phone**, SPA 502G (Must be the same fleet of existing VSU VOIP), POE	units	21	5,500.00	115,500.00
19	COMPUTER DESKTOP (Assembled Computer), INTEL CORE i3-8100-delete 9th generation of higher Processor	unit	6	30,000.00	180,000.00
	MOBO: Z370 Gaming Plus,				-
	MEMORY: 8GB DDR4, SSD: 240GB, DVDRW 24W, CASING W/ 700W PSU, 23" IPS MONITOR, KEYBOARD & MOUSE, AVR, SPEAKER, MOUSEPAD				-
20	**Computer Mouse**, Optical, USB type	pcs	2	250.00	500.00
21	Computer Printer Ink, HP680 Cartridge, Black	pcs	2	480.00	960.00
22	Computer Printer Ink, HP680 Cartridge, Colored	pcs	2	480.00	960.00
23	Computer Printer Ink, HP704 Cartridge, Black	pcs	10	480.00	4,800.00
24	Computer Printer Ink, HP704 Cartridge, Colored	pcs	10	480.00	4,800.00
25	**Computer Set** (Assembled Computer)	sets	2	30,000.00	60,000.00
	Specs:				-
	◉ atleast Intel Core i3 Processor at least 8th Gen				-

	◉64-bit OS				-
	◉Genuine Windows 10 Home				-
	◉RAM: at least 8GB DDR4				-
	◉Storage Type: at least 240GB SSD				-
	◉w/ at least 19" Monitor, keyboard, mouse, and Ergonomic Memory Foam Mouse Pad Wrist Rest Support				-
26	**COMPUTER SET** (Assembled Computer)	set	1	53,000.00	53,000.00
	CPU, 9th Gen. Intel Core i5				-
	H100MD-delete LGA 1151 Motherboard				-
	SDD: 1TB (Interface: SATA Rev. 3.0 (6Gb/s) - with backwards compatibility to SATA Rev. 2.0 (3Gb/s)				-
	Form Factor: 2.5" Data Transfer: up to 500MB/s Read and 450MB/s Write)				-
	RAM: at least 16GB 2400Mhz DDR4				-
	Screen: at least 23.5" LED Monitor w/ HDMI Port				-
	Screen Mode: Full HD				-
	Response Time: 5 ms				-
	Aspect Ratio: 16:9				-
	Backlight Technology: LED				-
	Panel Technology: Twisted Nematic Film (TN Film)				-
	Maximum Resolution: at least 1920 x 1080				-
	Colour Support: 16.7 Million colours				-
	Contrast Ratio: 1000,000,000:1				-
	Brightness: 200 cd/m²				-
	DVD Write Drive				-
	Optical Mouse (800dpi, ambidextrous mouse) with mouse pad				-
	2.1 Speaker: Total Power Output: RMS 8W x 2 + 12W x 1				-
	THD + N (Testing Level): 10%				-
	Signal to noise ratio: ≥ 85dBA				-
	Distortion: ≤ 0.5%				-
	Input Sensitivity: Satellites: 450mV ± 50mV	Subwoofer: 70mV ± 20mV				-
	Input impedance: 10k				-
	Audio Input Type: 3.5mm Stereo Line-in, FM				-
	Adjustment: Power, base, volume, mute				-
	Subwoofer/bass unit: 5" (131mm), Magnetically shielded, 4				-
	Tweeter unit: 2 3/4" (70mm), Magnetically shielded, 4				-
	Remote Control: Wired: Volume Control, headphone jack, mute				-
	Control Panel: Bass Trimmer, Power Switch, FM Tuner				-
	Genuine Windows 10 Operating System				-
	Casing with 600watts PSU 650 VA UPS				-

	Output Power Capacity: 325 watts/650VA				-
	Max Configurable Power (Watts): 375Watts/650VA				-
	Nominal Output Voltage: 230V				-
	Surge Energy Rating: 160 joules				-
	Input Frequency 50/60 Hz ± -3 Hz (auto sensing)				-
	Input Connections NEMA 5-15P				-
27	**Computer System** (Assembled Computer) with the following specs:	sets	3	24,000.00	72,000.00
	Processor: at least Intel Core i3 9th generation				-
	RAM: at least 8GB DDR4				-
	HARD DISK: at least 256GB SATA SSD				-
	MOTHERBOARD: Socket 1151				-
	MONITOR: at least 19" LED with USB Keyboard & Optical Mouse				-
	POWER SUPPLY: at least 700 watts with casing				-
	SATA OPTICAL DRIVE: DVDRW				-
28	**Copy Printer Ink**	pcs	2	1,300.00	2,600.00
	Farbe/Encre/Tinta/Inchiostro				-
	Black/Schwartz/Nior/Negro/Ner				-
	500ml/17.8oz				-
	DX 2430				-
29	**Data Cabinet 10U**, ISO certified, top fan, polycarbonate front, surge protection, easy access. Supplier must provide complete Datasheets. Metal gauge 40, powder coated, black	units	4	10,000.00	40,000.00
30	**Data Cabinet**, 10U, with 2-Fan, surge protect power strip, can open front and sides cover with keys. Flexiglass front, ISO standard, durable metal frame. Metal gauge 40, powder coated, black	unit	1	12,000.00	12,000.00
31	**Desktop Computer Set** (Assembled)	sets	2	50,000.00	100,000.00
	CPU - Intel Core i7 8700 9th generation or higher				-
	Socket 1151 Ultra Durable Motherboard				-
	RAM: at least 8GB				-
	HDD: at least 1TB				-
	SSD: at least 512GB				-
	with DVDRW + SATA Optical Drive				-
	Monitor: at least 22" LED Monitor IPS				-
	1 USB MOUSE				-
	1 USB KEYBOARD				-
	PSU: at least 700w				-
	Licensed Windows 10 Operating System				-
	UPS at least 600VA, at most 4hrs charging time				-
	Tower ATX CPU Casing				-
32	Desktop Unit	units	6	19,273.00	115,638.00
	Processor				-
	Intel Core i3-9100F-delete 9th generation Processor or higher (9M Cache, up to 4.10 GHz)				-

	Motherboard H3110M-E Intel LGA-1151				-
	RAM 4GB DDR4 2400 DIMM Desktop Memory				-
	Hardisk Drive 1TB RPM 7500-delete 500GB SSD				-
	Casing with Power Supply				-
33	Digital B&W Multi Function Printer	unit	1	60,000.00	60,000.00
	Copier/printer/scanner				-
	Output Speed: 20 pages per minute				-
	Memory Standard: 256MB				-
	Dimension (WxDxH): 587 x 581 x 537 mm-delete				-
	Weight: 33.5 kg-delete				-
	Power Source: 220-240 V, 50/60 Hz				-
	Copying Process: Laser beam scanning & electro photographic printing				-
	Multi Copying: up to 99 copies				-
	Resolution: upt to 600 dpi				-
	Zoom: from 50% to 200%				-
	Scanning speed: colour: maximum 6 orig.				-
	per minute/B/W; maximum 15 orig per min.				-
34	**DSLR Camera** w/ 18-135MM kit	unit	1	75,716.00	75,716.00
	Includes: same brand compatible Zoom Lens, EF-S 10-18mm f/4.5-5.6 IS STM				-
35	**External Hard Disk**	unit	1	4,000.00	4,000.00
	- 1TB storage capacity (Ultra Slim)				-
	- Data Transfer: 640 MBps (5GBps)				-
	- USB 3.0 interfaceplug-and-play				
36	**External Hard Disk (2 TB, USB 3.0)**	pcs	9	5,500.00	49,500.00
	2TB / USB 3.0 / PC & MAC Compatible				-
37	**External Hard Disk, 1TB**	pcs	7	3,500.00	24,500.00
	at least 1TB storage capacity (ultra slim)				-
	Data transfer: 640mpbs (5gps)				-
	USB 3.0 Interfaceplug-and-play				-
	Backward Compatible with USB v2.0				-
	Black				-
38	**External Hard** drive (2TB)	pc	2	5,000.00	10,000.00
39	**Fiber Optic Cable**, SM, 4 core, with 'messenger for post installation	mtrs	300	220.00	66,000.00
40	Fiber Optic Patch Panel, FiberExpress AP100041 1U 2slots Rack mount patch panel, including 1 x 24F splice tray; with 2x12F LC Duplex adapter strip, Ceramic sleeve for SM (AP 101731) UPC	sets	2	10,000.00	20,000.00
41	**Flash Drive, 16GB**	pcs	13	300.00	3,900.00
42	**Flash Drive**, 32GB	pcs	2	400.00	800.00
	Interface: USB 3.0				-
	Speed: 100MB/s read, 10MB/s write				-
	Compatibility: Windows® 10, 8.1, 8, 7(SP1), Mac OS X v.10.9.x +, Linux v.2.6+, Chrome OS™				-
43	**GPS**	units	2	7,500.00	15,000.00

	Display resolution, WxH: 128 x 160 pixels				-
	Display type: transflective, monochrome				-
	Weight: 5 oz (141.7 g) with batteries				-
	Battery: 2 AA batteries (not included); NiMH or Lithium recommended				-
	Battery life: 25 hours				-
	Waterproof: yes (IPX7)				-
	Floats: no				-
	High-sensitivity receiver: yes				-
	Interface: USB				-
	Maps and Memory:				-
	Basemap: yes				-
	Waypoints/favorites/locations: 1000				-
	Routes: 50				-
	Track log: 10,000 points, 100 saved tracks				-
	Features and Benefits:				-
	Camera: no				-
	Geocaching-friendly: yes (paperless)				-
	Custom maps compatible: no				-
	Photo navigation (navigate to geotagged photos): no				-
	Hunt/fish calendar: yes				-
	Sun and moon information: yes				-
44	Graphics Card HDMI (PCI E, 1GB, NVIDIA) 2GB DDR 3	pcs	1	3,100.00	3,100.00
45	**Hard Disk (SATA) 7200rpm**	pcs	6	2,200.00	13,200.00
	at least 500GB				-
46	**Hard Drive, 2TB**, HDD, 3.5 SATA HDD	pc	2	4,000.00	8,000.00
47	**Hard Drive, External**, 4TB Exernal Memory-delete 2x USB 3.0 Type A, 1 x usb 3.0	unit	1	8,250.00	8,250.00
48	HDMI Cable (Flat HDMI male to HDMI male cable, 5 meters, black)	pc	1	500.00	500.00
49	**HDMI to 3G-SDI Converter with Power Supply**	units	4	30,000.00	120,000.00
	1 HDMI input				-
	Supports SD and HD Signal				-
	2 SDI outputs				-
	Automatic Input Signal Detection				-
	Converts a single high-definition HDMI signal into two 3G-SDI signals for ensuring workflow compatibility in professional video environments. Input signals are detected automatically, so the converter knows the resolution and format to output.				-
50	HP Laserjet Toner, Genuine, 85A (CF285A) Black	unit	1	3,500.00	3,500.00
51	**ID Printer with Flipper**	unit	1	117,000.00	117,000.00
	Color dye sublimation and monochrome thermal transfer technology				-

	Automatic Flip Dual-Sided, edge to edge direct card printing w/ LCD display				-
	Card Capacity: 100 - 200input, can hold up to 40 outputs based on 30mil (0.76mm)				-
	vCard thickness: 15 - 30 mil (0.38 - 0.76mm)				-
	Card types: PVC and composite PVC cards, PET				-
	Fast print speed: 144 cards/hour full color (YMCKO)				-
	120 cards/hour (YMCKOK) for full color front and K mono back				-
	720 cards/hour (K) monochrome single side				-
	Superb image quality with FINE imaging technology				-
	Free ID card design with SMART ID and free batch printing w/ smart ID				-
	Free downloadable SDK (System Development kit)				-
	Auto ribbon search function eliminates				-
	Optical magnetic stripes encoding, contact chip, and contact-less chip encoding,				-
	the machine-readable technology that fits access control and other automated				-
	system.				-
	Compatibility with existing ID maker software and database				-
	Compatibility with existing pvc card				-
52	Imaging Drum for HP Laserjet CP1025	pcs	1	5,500.00	5,500.00
53	Ink cartridge Canon Pixma 810, black	pc	2	800.00	1,600.00
54	Ink cartridge Canon Pixma 811, colored	pc	1	1,200.00	1,200.00
55	Ink Cartridge, HP #678, Black	pcs	5	550.00	2,750.00
56	INK HP 678 Black	pcs	21	480.00	10,080.00
57	INK HP 678 Color	pcs	12	480.00	5,760.00
58	Ink Pigment, black 100ml, CUYI	bot	24	200.00	4,800.00
59	Ink Pigment, blue 100ml, CUYI	bot	6	200.00	1,200.00
60	Ink Pigment, magenta 100ml, CUYI	bot	6	200.00	1,200.00
61	Ink Pigment, yellow 100ml, CUYI	bot	6	200.00	1,200.00
62	Ink, Epson cartridge, genuine, 003 (BK), 65ml	bottle	33	300.00	9,900.00
63	Ink, Epson cartridge, genuine, 003 (C), 65ml	bottle	10	320.00	3,200.00
64	Ink, Epson cartridge, genuine, 003 (M), 65ml	bottle	10	320.00	3,200.00
65	Ink, Epson cartridge, genuine, 003 (Y), 65ml	bottle	10	320.00	3,200.00
66	Ink, Epson cartridge, genuine, T664 (BK) 65ml	btls.	3	300.00	900.00
67	Ink, Epson cartridge, genuine, T664 (C), 70ml	btls.	1	320.00	320.00
68	Ink, Epson cartridge, genuine, T664 (M), 70ml	btls.	1	320.00	320.00
69	Ink, Epson cartridge, genuine, T664 (Y), 70ml	btls.	1	320.00	320.00
70	Ink, Epson, genuine, 001 (C), 70ml	bots	6	320.00	1,920.00
71	Ink, Epson, genuine, 001 (M), 70ml	bots	6	320.00	1,920.00
72	Ink, Epson, genuine, 001 (Y), 70ml	bots	6	320.00	1,920.00
73	Ink, Epson, genuine, 001, (BK), 70ml	bots	5	300.00	1,500.00
74	Ink, Epson, genuine, 003 (C), 65ml	bots	39	320.00	12,480.00

75	Ink, Epson, genuine, 003 (M), 65ml	bots	39	320.00	12,480.00
76	Ink, Epson, genuine, 003 (Y), 65ml	bots	40	320.00	12,800.00
77	Ink, Epson, genuine, 003, (BK), 65ml	btl	56	300.00	16,800.00
78	Ink, Epson, genuine, T664 (C), 70ml	btls	94	320.00	30,080.00
79	Ink, Epson, genuine, T664 (M), 70ml	btls	94	320.00	30,080.00
80	Ink, Epson, genuine, T664 (Y), 70ml	btls	94	320.00	30,080.00
81	Ink, Epson, genuine,T664, (BK), 70ml	btls	181	300.00	54,300.00
82	Ink, Refill for Epson M200, (BK) 140ml, T774	bots	3	800.00	2,400.00
83	Ink, Refill, BT 500, 40ml, cyan for brother DCP-T710W	bots	2	470.00	940.00
84	Ink, Refill, BT 500, 40ml, magenta for brother DCP-T710W	bots	2	470.00	940.00
85	Ink, Refill, BT 500, 40ml, yellow for brother DCP-T710W	bots	2	470.00	940.00
86	Ink, Refill, BT D60, 40ml, black for brother DCP-T710W	bots	2	470.00	940.00
87	**Keyboard**, USB Type	pcs	4	400.00	1,600.00
88	**LAN Cable**, Cat6, 4 pairs, AWG 23, ISO, UL (305m/spool)	spools	17	7,800.00	132,600.00
89	**LAPEL**, Dual LT - 200 - Channel UHF Wireless Lavalier microphone system	pc	1	20,000.00	20,000.00
90	**LAPTOP**	unit	1	26,000.00	26,000.00
	Operating System: Windows 10 Home				-
	Processor: Intel Core 13-7020U-delete at least 7th generation Processor (3M Cache, 2.30 GHz)				-
	Memory: 4GB DDR4, up to 16GB (maximum)				-
	Card Reader: SD Card				-
	Storage: 1TB Hard Drive				-
	Screen: at least 14" HD LED Display				-
	Optical Drive: NO ODD				-
	Graphics: Integrated Graphics				-
	Connectivity: 802.11 AC Wireless LAN Gigabit LAN				-
	Audio & Video: 640 x 480 Webcam Digital Microphone 1 x Speaker 300 kilopixel (Front Camera)				-
	Ports & Connectors: 1 x USB 3.0, 2x USB 2.0, Network (RJ-45), HDMI Output				-
	Input Devices: Touch Pad, Non-backlit Keyboard				-
	Battery: 2-Cell 4810 mAh Li-Polymer				-
	Package Contents: Laptop, Lithium Polymer Battery, AC Adapter				-
91	**LAPTOP**	unit	1	32,000.00	32,000.00
	Operating System: Windows 10 Home				-
	Processor: at least Intel Core i3-7020U-delete at least 7th generation Processor (3M Cache, 2.30 GHz)				-
	Memory: 4GB DDR4, up to 16GB (maximum)				-
	Card Reader: SD Card				-
	Storage: 1TB Hard Drive				-

	Screen: 15.6" HD LED Display				-
	Optical Drive: NO ODD				-
	Graphics: Integrated Graphics				-
	Connectivity: 802.11 AC Wireless LAN Gigabit LAN				-
	Audio & Video: 640 x 480 Webcam Digital Microphone 1 x Speaker 300 kilopixel (Front Camera)				-
	Ports & Connectors: 1 x USB 3.0, 2x USB 2.0, Network (RJ-45), HDMI Output				-
	Input Devices: Touch Pad, Non-backlit Keyboard				-
	Battery: 2-Cell 4810 mAh Li-Polymer				-
	Package Contents: Laptop, Lithium Polymer Battery, AC Adapter				-
92	**LAPTOP**	unit	1	35,000.00	35,000.00
	Display Size: 15.6"				-
	Resolution: HD (at least 1366 X 768) FHD (at least 1920 X 1080)				-
	Panel Type: Anti Glare LED Backlit Display				-
	CPU: CORE i3				-
	Processor Model: at least 8th Generation Intel Core i3-6006U or higher-delete				-
	Chipset Integrated with the Processor				-
	GPU Model: Intel HD Graphics 520 with shared graphics Memory-delete				-
	Intel HD Graphics 620 with shared graphic memory				-
	Discrete: Graphics with 2GB DDR3				-
	RAM: 4GB				-
	Memory Type DDR4				-
	4GB Memory Slots two Sodium Slots				-
	Storage Type: 240GB SSD				-
	Optical Drive Built-in DVD-RW				-
	Connectivity HDMI				-
	USB3.1, Genuine OS Windows 10, Ubuntu, OS Ver Windows 10 Home-delete				-
	Battery 40WHr (4 cell) battery (removable) 45 watt AC Adapter (w/ standard graphics)				-
	65 watt AC Adapter (w/ discrete graphics option)				-
93	**LAPTOP**	unit	2	51,000.00	102,000.00
	Processor: Intel CoreTM i7 7500U-delete 8th generation Processor or Higher				-
	Operating System: Licensed Windows 10 Home				-
	Memory: at least 8GB SDRAM				-
	Display: at least 15.6" (16:9) LED Backlit fhd (1920 x 1080) 60Hz Anti-Glare Panel with 72% NTSC with 178" wide viewing angle display 15.6" (16:9) LED backlit HD				-
	Graphic: NVIDIA GeForce MX150, with 2gb GDDR5 VRAM				-

	Storage: Hard Drives: at least 1TB 5400RPM SATA HDD; Solid State Driver: 128GB SATA3 M.2 SSD				-
	Keyboard: Chiclet Keyboard/Illuminated Chiclet; Keyboard (on selected models)				-
	Card Reader: Multi-Format card reader (SD/SDHC)				-
	WebCam - VGA Web Camera *1				-
	Networking				-
	Wifi				-
	Integrated 802.11 AC (2x2)				-
	Bluetooth				-
	Built in Bluetooth V4.1				-
	Interface				-
	1 x Microphone-in Headphone-out jack				-
	1 x Type C USB 3.0 (USB3.1 GEN1)				-
	1 X USB 3.0 Port(s)				-
	1 X USB 2.0 Port(s)				-
	1 x HDMI, Support HDMI				-
	1 x Fingerpint (On selected models)				-
	*1 year Warranty				-
94	Laptop	unit	2	60,000.00	120,000.00
	Processor: Intel Core i7 at least 9th Gen				-
	Memory: 8GB				-
	Hard drive: 1TB HDD + 256 SSD				-
	Display: 14"				-
	Operating System: Licensed Windows 10				-
	Connectivity: USB, HDMI, VGA				-
95	Laptop, Display size: 12.5 to 14 inches; Resolution: 1920 x 1080	unit	1	70,000.00	70,000.00
	Panel type: led backlit, anti-glare, Processor/CPU: Intel Core i7-10710U or Intel Core i7-1060G7 or Intel Core i7 8th Gen or Intel Core i9,-delete 10th generation				-
	GPU: NVIDIA GeForce (MX250 or MX230), RAM: 16GB (or 12 GB or 8GB), Storage Drive/Hard Drive: 256GB SSD + 1TB HDD combination (or 500GB SSD or 1TB SSD)				-
	Connectivity: HDMI, USB2.0, USB3.0, Bluetooth, Wi-Fi (WiFi6 if possible), Card Reader, Camera, Speakers, Microphone, Trackpad (optional: Ethernet ports, USB Type-C, USB3.1) , OS: Licensed Windows 10 (Home or Pro)				-
	Battery: at least 8+ hours of battery life				-
96	Laser Pointer (wireless)	pcs	2	1,200.00	2,400.00
97	Laser Presentation Remote/Presenter, wireless	pcs	4	1,200.00	4,800.00
	Black				-
	Battery Type: 2 AAA Batteries, wireless operating distance: Approx 10m 1.49 in (37.8mm) x 4.55 in (111.5mm) x 1.08 in (27.4 mm) 0.65 in (16.5 mm) x 2.31 in (58.6 mm) x 0.31 in (7.9 mm)				-

98	**LCD Projector w/ screen**	units	2	25,000.00	50,000.00
	White Light Output (Normal/Eco):5,500lm / 3,800lm-delete at least 3,300 lumens				-
	Colour Light Output:at least 3,300lm				-
	At least SVGA Resolution				-
	3-chip technology				
	with a carry case				
	lamp and filter cycle for 6,000/10000 hrs (normal/ECO), with a built in speaker				
	with HDMI Cable & VGA Cord				
	Gesture Presenter-delete				-
	Multi-PC Projection-delete				-
	Split Screen-delete				-
	Network: -delete				-
	Wired LAN: RJ45 x 1-delete				-
	Wireless: Optional-delete				-
	Analog Input: -delete				-
	D-Sub 15Pin: 2 (1 Blue, 1 Black) -delete				-
	Composite: 1-delete				-
	Digital Input: -delete				-
	HDMI: 2-delete				-
	HDBASET (RX): RJ45 x 1-delete				-
	Output Terminal: -delete				-
	D-Sub 15Pin: 1 (Black) -delete				-
	Audio Input: -delete				-
	RCA (White/Red): 1-delete				-
	Stereo Mini Jack: 2-delete				-
	Audio Output: -delete				-
	Stereo Mini Jack: 1-delete				-
	Control I/O: -delete				-
	RS-232C: D-Sub 9pin x 1-delete				-
	Miracast: -delete				-
	2.4GHZ: Yes-delete				-
	5GHZ: Yes-delete				-
	Others: -delete				-
	USB Type A: 1 (for USB Memory, Firmware Update, Copy OSD Settings) -delete				-
	USB Type B: 1 (for USB Display, Mouse, K/B, Control, Firmware Update, Copy OSD Settings) -delete				-
	Supplier must provide brochure & complete datasheets-delete				-
99	**LCD Projector w/ screen**	unit	1	25,000.00	25,000.00
	3-chip technology				-
	at least 3,300 lumens colour				-
	3,300 lumens white brightness colour				-
	SVGA Resolution				-

					-
	with a carry case				-
	compatible with the latest laptops and media players and supports HDMI				-
	lamp and filter cycle for 6,000/10000 hrs (normal/ECO), with a built in speaker				-
	with HDMI Cable & VGA Cord				-
100	Licensed MS Office 2019 h&s fpp	pc	1	5,900.00	5,900.00
101	Memory card (Micro; 32 gb SDHC 80 MB/s)	pc	1	700.00	700.00
102	**MOTHERBOARD (replacement)**	unit	3	5,100.00	15,300.00
	IntelⓇ Socket 1151 for 7th/6th Generation Core i7/Core i5/Core/PentiumⓇ/CeleronⓇ Processors				-
	Chipset IntelⓇB250				-
	Memory: 4 x DIMM, Max 64GB, DDR4 2133 MHz Non-EEC, Un-buffered Memory *1 Dual Channel Memory Architecture				-
	Graphic: Integrated Graphics Processor - IntelⓇ HD Graphic Support				-
	Multi VGA output support: HDMI/DVI-D/RGB Ports				-
	Supports HDMI 1.4B with max resolution 4096 x 2160 @ 24Hz/ x @ Hz				-
	Expansion Slots: 1 x PCIe 3.0/2.0 x 16 (x 16 mode gray) 2 x PCIe 3.0/2.0 x 1				-
	Storage IntelⓇ B250 Chipset				-
	1 x M.2 Socket 3, with M key, type 2242/2260/2280/ storage devices support (x4 PCIE Mode)				-
	6 x SATA 6GB/s port(s), gray				-
	LAN: RealtekⓇ RTL8111H, 1 x Gigabit LAN Controller(s)				-
	Audio: RealtekⓇ ALC887 8-Channel High Definition Audio CODEC				-
	OS Support: WindowsⓇ 10, 64bit				-
	Internal I/O Ports				-
	1 x USB 3.0 Connector(s) support(s) additional 2 USB 3.0 port(s) (19-pin)				-
	1 x 4-pin ATX 12V Power Connector(s)				-
	Accessories: User Manual				-
103	**NETBOOK**	unit	1	14,000.00	14,000.00
	at most 11.6" display				-
	Intel Celeron				-
	Memory: at least 2GB RAM				-
	Storage: at least 500GB HDD				-
	OS: Windows 10				-
104	**Optical Mouse**, USB Type	pcs	6	250.00	1,500.00
105	Outdoor Portable Speaker, Wireless w/ wireless microphone	units	2	15,000.00	30,000.00
	300 WATTS MAX				
	Active / Powered / Built in Amplifier / Ready to Use				

	Tweeter 13 x 6"				
	15" woofer				
	Dual wireless mouse VHF				
	Wireless Mic: Yes, Dual, VHF, 25Meters Range				
	USB, SD Card, Bluttooth, radio				
	Dual wireless mic				
	220V				
	Trolly, plastic body				
	Built In battery , Rechargeable, 4 Hours Usage				
106	**Pix4D Mapper software**	pc	3	350,000.00	1,050,000.00
	Floating-license desktop application				-
	Perpetual License				-
107	**Two Way Radio Pair**	pc	3	40,000.00	120,000.00
	Band: UHF (Bandwidth Range: Either 12.5kHz or 25kHz)				-
	Output Power: 2000mW				-
	16 Channels				-
	at least 350,000 sq ft range				-
	" 89 UHF business-exclusive frequencies and 121 interference eliminator codes				-
	Frequency Range: 435MHZ - 480MHz "				-
	with NTC License*				-
108	**Portable Sound System**, 600 Watts (300 x 2)	set	2	45,000.00	90,000.00
	* Line-in/out stereo				-
	*7 combination XLR 1/4"" inputs				-
	*RCA/3.5 TRS media inputs				-
	*USB MP3 plackback				-
	*Patented FLS® (Feedback locating system)				-
	*Digital multi-effects				-
	*Mid-morph®				-
	*LCD screen for ease of file playback and effect selection				-
	*Monitor send				-
	*Subwoofer output				-
	*Bluetooth wireless audio playback				-
	*Two folding speaker stands				-
	*Two 15' speaker cables				-
	*Storage compartment for optional accessories				-
	*Convenient package with luggage-style wheels				-
	*Custom rubberized knobs				-
	*9 channels				-
	*Two-way speaker system with 10"" woofer				-
	*Seven-band graphic equalizer"				-
109	**Power Supply** (600W) with ATX12v Ver. 2.3	pc	1	2,900.00	2,900.00

110	**Power Supply** unit for desktop (700-750 watts)	pcs	4	2,000.00	8,000.00
	ATX 12V				-
	Compatible with latest multi-core CPU motherboards and high-end graphics				-
111	Power Supply unit, Universal, for desktop (700-750 watts)	pcs	1	1,500.00	1,500.00
112	Printer - Ink Tank System All-in-One Functions. Print, Scan, Copy 3 pi, with variable-sized droptlet technology Dye Ink, 5760x1440 dpi, 180 nozzle black 59 per color (1 unit)	lot	1	9,660.00	9,660.00
	Ink refill 70 ml (4 colors per set: Cyan, Magenta, Yellow, Black, same brand with the printer) 2 sets				-
113	Printer - Wi-Fi Duplex All -In-One Ink Tank Printer With ADF: (1 unit)	lot	1	33,000.00	33,000.00
	Ink, genuine, (BK) 70 ml suitable for the requested printer (4 btls)				-
	Ink, genuine, (C) 70 ml suitable for the requested printer (2 btls)				-
	Ink, genuine, (M) 70 ml suitable for the requested printer (2 btls)				-
	Ink, genuine, (Y) 70 ml suitable for the requested printer (2 btls)				-
114	PRINTER, 3 in 1, Continuous Ink Supply System, Precision Core Printhead, 400 nozzle black, 128 nozzle per colour, 3.3pl with variable-sized droplet technology, dye ink, bi-directional printing, uni-directional printing, 4,800x1,200 dpi, Print, Scan, Copy, Fax,	unit	1	18,000.00	18,000.00
	Print Speed: 13.7ipm black/7.3ipm color,				-
	Best Print Speed: 6.5ipm black/4.5ipm color,				-
	Photo Print Speed (10cmx15cm): 69 sec per photo with border, Automatic 2 sided printing,				-
	Copy Speed: 11 sec black/5.5ipm color,				-
	Copy Quality: Normal/Best, Up to 99 max copies, 25-400% Auto Fit Function, Max				-
	Copy Size: A4, Letter, Legal,				-
	Scanner Type: Flatbed/ADF, Sensor: CIS,				-
	Copy Resolution: 600x600 dpi,				-
	Optical Resolution: 1,200 x 2,400 dpi, 48 bit input/24 bit output color, 16 bit input/8 bit output grayscale, 16 bit input/1 bit output black,				-
	Print Margin: 3mm top/left/right/bottom,				-
	Interface: USB 2.0, Ethernet, 802.11b/g/n, Wi-fi Direct, Mobile and Cloud Printing, 2.2" Mono LCD Screen, Mac OS 10.7.x/10.8.x/10.9.x/X 10.6.8 or later, Windows 7/7 x64/8/8 (32/64 bit)/8.1/8.1 x64 Edition/Vista/Vista x64/XP x64/XP Professional x64 Edition,				-
	Rated Voltage: AC 220-240V;				-
	Rated Frequency: 50-60Hz, Power Consumption Operating: 11W; Standby: 4.4W; Sleep: 1.5W;				-

	Power Off: .3W, Noise Level 5.9B (A), 46dB (A)- PC Printing / Premium Glossy Photo Paper Best 6.4B (A), 50dB(A)- PC Printing / Plain Paper default,				-
115	**Printer, 3-in-1** (Print, Scan & Copy)	unit	2	8,500.00	17,000.00
	Compact integrated tank design; print, copy, scan functions				-
	Print speeds up to 15pm for black and 8.0ip for colour				-
	Borderless Printing up to A4 Size				-
	Spill free ink refilling				-
	Compact integrated tank design				-
	Print speeds up to 15ipm for black & 8.0ipm for colour				-
	Auto-duplex printing				-
	Ethernet & wif-fi direct				-
	Borderless Printing up to A4 size				-
	Spill-free ink refilling				-
	1 year warranty				-
116	**Printer, All-in-One**, Ink Tank, with ADF	unit	1	17,000.00	17,000.00
117	**PRINTER,** Multi Function with Continuous Ink System (Print, Scan, Copy)	unit	6	8,000.00	48,000.00
	5,760 x 1440DPI				-
	15 pages per min printing speed				-
118	Printer, Refillable Ink Tank Wireless	pc	1	13,000.00	13,000.00
	All-In-One with Fax for High Volume Printing				-
119	**PRINTER,** Wifi Duplex All-in-one	pcs	2	14,500.00	29,000.00
	Print speeds up to 15ipm for black and 8.0ipm for colour				-
	Auto Duplex Printing				-
	Ethernet & Wifi Direct				-
	Borderless Printing up to A4 size				-
	Spill-free ink refilling				-
	1.4 refilling				-
	1.4 inch colour LCD panel				-
	Bi-Directional Printing				-
	Uni-Directional Printing				-
	400 nozzles Black				-
	128 nozzles per colour (Cyan, Magenta, Yellow)				-
	4800 x 1200 dpi (with Variable-sized Droplet Technology)				-
	copy resolution 600 x 1200 dpi				-
120	Professional Wireless receiving unit with 2-pcs with professional wireless microphone (lapel) with two handheld wireless microphone with cable convertible. G frequency range 566-608Mhz	set	2	20,000.00	40,000.00
121	**PROJECTOR, w/ Screen**	pc	1	75,000.00	75,000.00
	XGA resolution of 1024 x 768, 4:3				-
	RGB Liquid Crystal Shutter				-

	up to 300 inch display				-
	with stream and share wireless connectivity				-
	Lumens: at least 5000				-
	LCD Panel: 0.63 inch with D10				-
	At least 5000 lumens				-
122	**Quadcopter Drone**	unit	1	50,000.00	50,000.00
	Aircraft Specs:				-
	Weight: about 570 g				-
	Max Ascent Speed: 4 m/s (S Mode)				-
	Max Service Ceiling Above Sea Level: 5000 m				-
	Max Flight Time (without wind): 34 minutes				-
	Max Flight Distance: 18.5 km"				-
	Battery:				-
	Capacity: 3500 mAh				-
	Voltage: 11.55 V				-
	Battery Type: LiPo 3S				-
	Max Charging Power: 38 W				-
	Camera:				-
	Sensor: 1/2"" CMOS (Effective Pixels: 12 MP and 48 MP)				-
	Lens: FOV: 84°				-
	Max Photo Resolution: 48 MP 8000×6000 pixel				-
	Gimbal:				-
	Stabilization: 3-axis (tilt, roll, pan)				-
	Max Controllable Speed (tilt):100°/s				-
	Angular Vibration Range: ±0.01°"				-
123	Ribbon, Genuine EPSON LQ 310 SO15639	pcs	20	150.00	3,000.00
124	**Smart TV**, 75", 4k, UHD must have a certified/legitimate service center in region 8, ISDB-T, PIP, Audio in/out, Video in/out, HDMI, VGA, USB. 1 year warranty or higher, supplier must provide complete Datasheets.	units	2	120,000.00	240,000.00
125	**Smart TV/Monitor**	unit	1	50,000.00	50,000.00
	Screen Size: at least 50"				-
	Full HD				-
	Resolution: at least 1920 x 1080				-
	3D: Yes				-
	Dynamic Contrast Ratio: Mega Contrast				-
	HDMI: 4				-
	Component Terminal: Yes				-
	PC Input Terminal: Composite In (AV)				-
	Ethernet (LAN)/RF In (Terrestrial/Cable Input)				-
	USB/Wireless LAN Built-In				-
	Component Terminal: Yes				-
	Lan Terminal: Yes				-
	At least 1 yr warranty and service center in region 8,				-

126	SVGA 3LCD-delete Projector	unit	1	25,000.00	25,000.00
	white and colour brightness at 3,300lm				-
	SVGA resolution				-
	High contrast ration of 15,000:1				-
	Horizontal keystone slider				-
	10,000 hours lamp life in eco-mode				-
127	**Switch 24 ports**, POE+,US-24-500 watts compatible with unifi (Must be compatible with Unifi Controller)	units	6	33,000.00	198,000.00
128	Toner HP CE285A 85A	pc	6	3,500.00	21,000.00
129	**Ubiquiti Unifi Access Point AC-Pro,** must be compatible with Unifi (Must be of the same fleet of existing VSU Access Points, must be compatible with Unifi Controller)	units	30	10,000.00	300,000.00
130	**UNDERWATER CAMERA (RED OR BLUE)**	units	2	28,000.00	56,000.00
	USB cable, hand strap, instruction manual, warrany card,				-
	LI-92B Lithium Ion Rechargeable batttery, F-5AC USB-AC				-
	Adapter				-
	PRODUCT TYPE				-
	Memory: SD, SDHC[1], SDXC[1]				-
	* 1 UHS-I compatible				-
	IMAGE SENSOR				-
	Product type: 1/2.33 inch				-
	Number of pixels: Number of effective pixels: 12 million pixels				-
	Total number of pixels: Approx. 12.7 million pixels				-
	Aspect ratio: 1.33 (4:3)				-
	LENS				-
	Structure: 9 lens elements in 7 groups				-
	Focal length (equiv. 35mm): 4.5mm -18.0mm (25mm - 100mm)				-
	Maximum aperture: f/2.0 (wide-end) to f/4.9 (tele-end)				-
	Optical zoom: 4x				-
	Shooting range (from lens tip): Throughout entire zoom range: 0.1m - infinite (Super macro: less than f=5.4mm, from 0.1m to 0.3m / above 5.4mm, from 0.01m to 0.3m / Microscope: 0.01m - 0.30m)				-
	STILL PHOTO RECORDING				-
	Recording format: DCF2.0, Exif2.3				-
	File format: RAW (12-bit lossless compression), JPEG, RAW + JPEG				-
	Recording image size: [RAW] 4000 x 3000				-
	[JPEG] 4000 x 3000 - 1280 x 960				-
	IMAGE STABILISATION SYSTEM				-
	Type: Still image: CMOS shift				-
	Mode: On / Off				-

	Stabilisation performance: 2.5 EV[*] (Focal length set to 18 mm. 35 mm Equivalent Focal Length: 100 mm)				-
	*Based on CIPA measurement conditions.				-
	LIVE VIEW				-
	Live View: Approx. 100% field of view, Exposure compensation preview, WB adjustment preview, Gradation preview, Face detection preview (up to 8 faces), Grid line, display modes: Standard, Histogram, Highlight & Shadow, Level Gauge, Off				-
	MONITOR				-
	Monitor type: 3.0-inch colour LCD[*]				-
	*Approx. 1040K dots (Aspect ratio: 3 : 2)				-
	Brightness control: ±7 levels				-
	FOCUSING				-
	AF system: CMOS Contrast Detection (with AF Illuminator)				-
	Focusing point / Focusing point selection mode: 25 point / All target, single target				-
	Focus mode: Single AF (S-AF) / AF tracking / Manual Focus (MF) / Super macro (AF) / Super macro (MF)				-
	Face detection AF: With				-
	Manual focus assist: Live View image magnification and focus peaking are available during manual focus operations.				-
	Peaking function: With				-
	*Colour selection: white, black, red, yellow				-
	AF illuminator: With				-
	EXPOSURE CONTROL (STILL)				-
	Metering system (TTL Image sensor metering): Digital ESP metering / spot metering				-
	Metering range: EV 2-20 (f/2.0 / ISO 100)				-
	Exposure mode / Shooting mode: Intelligent Auto (iAUTO), Program Auto (P), Aperture Priority (A), Custom1, Custom2, Underwater (Snap, Wide, Macro, Microscope, HDR), Microscope (Microscope, Focus stacking, Focus bracket, Microscope control), Scene Mode (SCN), Movie				-
	Scene select AE: Portrait, e-Portrait, Landscape, Portrait +Landscape, Hand-held Starlight[*], Nightscape, Portrait + Nightscape, Children , Sport , Candlelight, Sunset, Fireworks, Beach & Snow, Panorama, Live Composite, Backlight HDR				-
	*6 images automatically shot and combined into a single composite image				-
	ISO sensitivity: AUTO ISO: 100 - 1600 with customisable upper limit from 100 to 12800				-
	Manual ISO: 100 - 12800 (1/3 EV step)				-
	Exposure compensation: ±2 EV (1/3 EV step)				-
	AE lock: Locks with a half-press of the shutter button				-
	SHUTTER				-

	Shutter Speed: 1/2 to 1/2000 sec. (Night Scene, A mode: up to 4 sec.)				-
	DRIVE				-
	Sequential shooting maximum speed: [Sequential shooting H][*]: approx. 20 fps with selectable 10 / 20fps				-
	[Sequential shooting L]: approx. 5 fps				-
	[Pro Capture][*]: approx. 10 fps				-
	*Electronic Shutter				-
	Maximum recordable frames prior to second release (for Pro Capture): Max. 5 frames				-
	Sequential shooting maximum recordable frames: [Sequential shooting H] RAW: Max. 14 frames, JPEG (LN): Until card is full				-
	[Sequential shooting L] RAW: Max. 40 frames, JPEG (LN): Until card is full				-
	Self-timer: Operation time: 12 sec., 2 sec., custom (Wait time: 1-30 sec., Number of shots: 1-10, Shot interval: 0.5 / 1 / 2 / 3 sec.)				-
	FLASH				-
	Flash intensity control method: TTL Auto, Manual				-
	Built-in flash: With				-
	Flash mode: Auto, Red Eye Reduction, Slow sync. (1st curtain), Red-eye Slow sync. (1st curtain), Fill-in, Manual (1/1 (FULL)-1/64), Flash Off				-
	Synchronization speed: Compatible with all shutter speeds				-
	Flash intensity control: Up to ±2 EV in 1/3 EV steps				-
	WIRELESS FLASH CONTROL				-
	Compatible external flash: FL-50R, FL-36R, FL-300R, FL-600R, FL-900R, FL-700WR				-
	Control method: Triggered and controlled by Olympus Wireless RC Flash system				-
	Commander Flash: Built-in flash				-
	Channel: 1 channel				-
	Group No.: 1 group				-
	WHITE BALANCE				-
	White balance mode: Auto WB, 6 Preset WBs, 3 Underwater WBs, 4 Capture WBs, Custom WB (Kelvin setting)				-
	White balance compensation: ±7 steps along A-B / G-M axis				-
	*Except for Custom WB				-
	COLOUR MODE				-
	Colour matrix: sRGB, Adobe RGB				-
	PICTURE MODE				-
	Mode: i-Enhance, Vivid, Natural, Muted, Portrait, Monotone, Custom, e Portrait, Art Filters				-
	Gradation: Auto, Normal, High Key, Low Key				-

	[except when using i-Enhance, Underwater, Art Filters, Colour Creator]				
	ART FILTER				-
	Art Filter (Variation / Art Effect): Pop Art (I, II / a, b, c. d, e, f)				-
	Soft Focus (- / c, e)				-
	Pale & Light Colour (I, II / a, b, c, d, f)				-
	Light Tone (- / d, f)				-
	Grainy Film (I, II / b, c, d, g, h)				-
	Pin Hole (I, II, III / d)				-
	Diorama (I,II / d)				-
	Cross Process (I, II / b, c, d, f)				-
	Gentle Sepia (- / a, b, c, d, f)				-
	Dramatic Tone (I / b, c, d, e, f) (II / b, c, d, e, f, g, h)				-
	Key Line (I, II / a, b, c, d, e)				-
	Watercolour (I, II / a, b, c, d)				-
	Vintage (I, II, III / a, b, c, d, e, f, i)				-
	Partial Colour (I, II, III / a, b, c, d, e, f)				-
	Bleach Bypass (I, II / a, b, c, d, e, f, i)				-
	Instant Film (- / a, b, c, d, e, f, i)				-
	Detail of Art Effect:				-
	a. Soft Focus Effect				-
	b. Pin-Hole Effect				-
	c. White Edge Effect				-
	d. Frame Effect				-
	e. Star Light Effect				-
	f. Blur Effect (Top & bottom, Left & Right)				-
	g. B&W Effect (None, Yellow, Orange, Red, Green)				-
	h. Pict. Tone (None, Sepia, Blue, Purple, Green)				-
	i. Shade Effect (Top & bottom, Left & Right)				-
	Colour Ring (for partial colour): 18 colour selectable				-
	BRACKETING				-
	Focus bracketing: Number of images 10 / 20 / 30				-
	Focus step: Wide / Standard / Narrow				-
	Focus stacking: With[*]				-
	*Angle of view becomes slightly smaller				-
	HDR Function				-
	HDR (Auto composite): HDR[*]				-
	*SCN position				-
	LIVE COMPOSITE				-
	Update interval time / composite method: 0.5sec - 4.0 sec / Lighten Mode (Bright area prioritisation)				-
	INTERVAL MODE				-
	Interval Mode: Interval Time 1sec. - 24 Hours,				-

Max 299 frames.					
Available to make Time Lapse movies automatically					-
STAMP					-
Date / Time stamp: Available					-
Multi Aspect					-
Aspect Ratio: 4:3, 3:2, 16:9, 1:1, 3:4					-
ONE PUSH TELE-CONVERTER					-
Magnification: x2 (P, A, Movie mode), x2 / x4 (Microscope mode)					-
LEVEL GAUGE					-
Detection: 2-axis					-
VIDEO RECORDING					-
Recording format: MOV (MPEG-4AVC/H.264)					-
Mode / Frame rate: [MOV]					-
3840x2160 (4k) / 30p, 25p (Bit rate: Approx. 102Mbps)					-
1920x1080 (FHD) / 30p, 25p / IPB (SF, F, N)					-
1920x1080 (FHD) / 60p, 50p / IPB (SF, F, N)					-
1280x720 (HD) / 30p,25p / IPB (SF, F, N)					-
60p: 59.94fps, 50p: 50.00fps, 30p: 29.97fps, 25p: 25.00fps					-
FHD (Superfine / 52Mbps, Fine / 30Mbps, Normal / 18Mbps)					-
HD (Superfine / 52Mbps, Fine / 30Mbps, Normal / 18Mbps)					-
*Frame rates may drop when particular Art Filters and Movie Effects are used.					-
*UHS-I Speed Class 3 SD card must be used for 4K video and high speed movie.					-
Maximum recording time: [MOV]					-
Approx. 29min					-
ART FILTER MOVIE					-
With					-
*Except for 4K and high speed movie					-
*Frame rates may drop when certain Art Filters are used					-
Time Lapse Movie: [MOV]					-
3840×2160 (4K) / 5fps					-
1920×1080 (FHD) / 5fps, 10fps, 15fps					-
1280×720 (HD) / 5fps, 10fps, 15fps, 30fps					-
High Speed Movie: 1920x1080 (FHD) / 120fps, recording time 20 sec.					-
1280x720 (HD) / 240fps, recording time 20 sec.					-
640x360 (SD) / 480fps, recording time 20 sec.					-
Image Stabilisation for Video* Digital stabilisation (angle of view becomes slightly smaller)					-
Grid Line: 2 types of grid lines					-

	Live View Output via HDMI: Monitor Mode (outputs video and info display to a connected monitor)[*]				-
	*Info display is not shown on the camera while recording.				-
	Exposure Control: Programme AE				-
	RECORDING (SOUND)				-
	Recording format: Wave format (Stereo linear PCM/16-bit, Sampling frequency 48kHz)				-
	Microphone / Speaker: Built-in stereo microphone / built-in mono speaker				-
	Microphone function: Wind noise reduction, recording volume, microphone volume limiter Audio dubbing possible for still pictures (up to 30 sec.)				-
	*May affect audio quality.				-
	WI-FI FUNCTION				-
	GPS info. Function: Via smartphone GPS data				-
	Wireless Control[*] Using the OI.Share app:				-
	Live View, Rec View, Wireless Touch AF shutter, Self Timer (w/countdown guidance, consecutive shooting, short video recording), power off, wireless release, video recording (video quality is restricted)				-
	iAuto / P / A / Live Composite and Microscope can be selected.				-
	Aperture, exposure, ISO sensitivity, white balance. Drove can be adjusted.				-
	*Private connection only.				-
	Image Share: File Type: JPEG, MOV				-
	Connect to up to 4 devices simultaneously. Marking function for image share.				-
	Easy Connection: QR code setting				-
	PLAYBACK				-
	Playback mode: Single-frame, information display, index display (4 / 9 / 25 / 100 frames), calendar, enlargement (2x - 14x), movie (with sound, FF / REW / Pause), slideshow (with sound including BGM, picture rotation (auto)				-
	Information display: Histogram (independent luminance / RGB available), Highlight / Shadow point warning, AF frame, Photographic information, OFF				-
	IMAGE EDITING				-
	Movie Editing function: Trimming (beginning / end) / in-movie image extraction (4K only)				-
	Editing function: RAW data edit, Gradation auto, Monochrome, Sepia, Red-eye fix, Saturation, Resize (1280x960, 640x480, 320x240), Trimming, Aspect, e-Portrait, Image Overlay, Post recording				-
	RAW data edit: RAW data edit based on settings of the camera (including e-Portrait, Art Filter, ART-BKT). Preview capability.				-

	PRINT				-
	Print function: Print reservation (DPOF)				-
	MENU				-
	Languages: 34 languages selectable:				-
	English, French, German, Spanish, Italian, Japanese, Korean, Traditional Chinese, Simplified Chinese, Russian, Czech, Dutch, Danish, Polish, Portuguese, Swedish, Norwegian, Finnish, Croatian, Slovenian, Hungarian, Greek, Slovakian, Turkish, Latvian, Estonian, Lithuanian, Ukrainian, Serbian, Bulgarian, Rumanian, Indonesian, Malay, Thai				-
	TOUGH CAPABILITIES				-
	Waterproof: JIS/IEC protection class 8 (IPX8)				-
	Dustproof: JIS/IEC protection class 6 (IP6X)				-
	Freezeproof: Down to -10°C				-
	Crushproof: Up to 100 kgf				-
	Shockproof: Up to 2.1 m				-
	FIELD SENSOR SYSTEM				-
	Sensor: GPS (GLONASS,QZSS), compass, manometer, temperature sensor, Acceleration sensor				-
	CUSTOM				-
	Mode dial my set: Modes C1 and C2 can be accessed by mode dial				-
	Copyright Settings: With				-
	INPUT / OUTPUT				-
	Remote controller connector: USB microB				-
	HDMI connector: Micro HDMI (type D)				-
	Wireless LAN: Built-in (IEEE 802.11 b / g / n)				-
	PC interface: USB2.0 Hi-Speed				-
	DC connector: USB micro B				-
	POWER REQUIREMENTS				-
	Battery: LI-92B Li-ion battery				-
	AC Adapter: F-5AC				-
	Number of recordable images: Approx. 340 shots				-
	Battery life for movie recording: Approx. 50 minutes[*] (under standard JEITA testing)				-
	Approx. 110 minutes (when zoom and other operational functions are not used)				-
	*When repeatedly recording at the maximum time of 29 minutes				-
	Temperature: -10 - +40°C (when in operation) / -20 - +60°C (when stored)				-
	Humidity: 30 - 90% (when in operation) / 10 - 90% (when stored)				-
	OPERATING ENVIRONMENT				-
	Box contents: Body, USB cable, Hand Strap, instruction manual, warranty card, LI-92B Li-ion battery, F-5AC USB-AC adapter				-

	BOX CONTENTS				-
	Box contents: Body, USB cable, Hand Strap, instruction manual, warranty card, LI-92B Li-ion battery, F-5AC USB-AC adapter				-
131	Uninterruptible power supply (UPS), watts/650, at most 4 hours charging time	unit	1	3,000.00	3,000.00
132	**UPS (650VA)**	unit	1	3,300.00	3,300.00
	Output Power Capacity: at least 375 watts/650VA				-
	Nominal Output Voltage: 230V				-
	Transfer Time: 6ms Typical				-
	10ms Maximum				-
	at most 4 hours charging time				-
133	**UPS**, 500VA without AVR, at most 4 hours charging time	pc	1	3,500.00	3,500.00
134	**UPS, 650 VA**	units	4	3,600.00	14,400.00
	600VA, 220V				-
	at most 4 hours charging time				-
	AVR Floor				-
	Universal Socket				-
135	**UPS, 800VA**, saving time 1 hour	unit	2	5,000.00	10,000.00
136	**UPS**, Smart-UPS 3000 , 3000watts, compatible with APC smart humidity-temperature controller (must be of the same fleet of VSU network UPS) * supplier must provide complete Datasheets *2 years warranty	units	2	50,000.00	100,000.00
137	USB Flash Drive (128GB)	pcs	3	1,200.00	3,600.00
138	VGA to HDMI Adapter/Converter Cable with Audio, 1080p Convert VGA Source (PC) in HDMI Connector of Monitor, TV. Active Male VGA-HDMI Out Lead Video Addattatore Cord for Computer, Laptop and Projector Length: at least 2 meters	pc	1	1,500.00	1,500.00
139	**Waterproof Hiking GPS**	unit	1	20,000.00	20,000.00
	High Sensitivity GPS Receiver				-
	Color-Handheld Mapping Ideal for both Marine and Outdoor Use				-
	Bright - Sunlight-Readable Color Tft Display				-
	128mb Micro Secure Digital Card for Storage of Optional Map Detail				-
	Fast USB Connectivity Makes Loading Charts & Maps Quick & Easy				-
140	**Web Cam**	unit	5	1,500.00	7,500.00
	TECHNICAL SPECIFICATIONS:				-
	- Image Sensor: 1080p Full-HD Sensor				-
	- Video Resolution: up to 2 megapixel				-
	- Frame rate: 30 FPS				-
	- View angle: 60°				-
	- Computer Interface: USB 2.0				-
	- Microphone: built-in				-

					-
	- Dust Free: Plug and Play video				-
	ADDITIONAL FEATURES:				-
	- High-fidelity Microphone				-
	- Anti-glare Coating				-
	- Superior low-light Performance				-
	- Intelligent Multisampling				-
	- Fold-and-go, Plus-swivel design: 360 degrees				-
	SYSTEM REQUIREMENTS:				-
	- Windows 7/8/8.1/10 or above				-
	- Works in USB Video Device Class (UVC) Mode, Mac OS 10.6 or above, Linux OS 2.6 or above, Chrome OS 6.0 or above, Android V6.0 or above				-
141	Licensed Windows 10 Pro 32/64bit FPP	pc	1	11,400.00	11,400.00
142	**Wireless Monochrome Laser Printer**	units	2	6,500.00	13,000.00
	Print speed up to 20 ppm / 200 MHz processor / Print resolution up to 2400 x 600 dpi / Input tray holds 150 sheets / Mobile printing made easy / Connect with a touch of a button - effortless Wi-Fi set up (WPS 2.0)				-
143	**Wireless Mouse, at least 1000 DPI**	unit	6	1,000.00	6,000.00
	Connection Type: at least 2.4 GHz wireless				-
	Wireless Range: at least 10m (33ft)				-
	Battery: 1 x AA				-
144	**Yeastar S300 Server + 2 D30 Module**, 1FXO module, 1 FXS module, 1 expansion board (Existing Fleet)	sets	2	135,000.00	270,000.00
145	2-in-1 Laptop	set	1	55,000.00	55,000.00
	Package specifications				-
	13.3" Touchscreen				-
	Intel Quad Core i5-8265U-delete at least 8th generation				-
	At least 8GB Ram, 256GB SSD, Backlit				-
	Wi-Fi 6				-
	Bluetooth				-
	Windows 10				-
	Microsoft Office Suite				-
146	Desktop Computer Set (Assembled)	set	2	35,000.00	70,000.00
	Processor: at least core i5 9th gen or higher				-
	Licensed Windows 10, 1TB HDD				-
	Memory: 8GB RAM DDR4, w/ at least 20" Monitor, Casing w/ 600W PSU				-
	USB KB & Mouse, UPS 650VA at most 4 hrs charging time				-
	Speaker & Mouse pad				-
147	**All-in-one Printer (Print, Scan, Copy) Ink tank system**	set	1	8,000.00	8,000.00
	Specifications:				-

	- Features: Multi-function Inkjet Printer, color print (Black, Refillable Ink Tank)				-
	- Printing Type: Colour				-
	- Printing Technology: Inkjet				-
	- Scanner Type: Flatbed				-
	- Print Resolution: 5760x1440 DPI Print Speed Black: 33 PPM Print Speed Colour: 15 PPM Paper Size: 10x15cm(4x6in), 13x18cm(5x7in), 9x13cm(3.5x5in), A4, A5, A6, B5, Letter(8 1/2x11in) Scanning Method: CIS Network: USB USB 2.0 Color: Black Paper Tray: 100 Sheets Warranty: 1 Year(s) Printer Type: Multifunction				-
148	**DOCUMENT SCANNER (Flat Bed)**	unit	1	30,000.00	30,000.00
	General				-
	Type Documents - desktop scanner				-
	Interface type USB 3.0				-
	Size Max. documents that support 216 x 3100 mm				-
	Location English, German, French, Italian, Spanish / Europe				-
	Scanner				-
	Input type Color				-
	Grayscale depth 8-bit (256 grey levels)				-
	Color depth 24-bit (16.7 million colors)				-
	Optical resolution 1200 dpi x 1200 dpi				-
	Scan mode Single-pass				-
	To two sides automatic Yes				-
	Scan element type CMOS / CIS				-
	Type of lamp / light source LED				-
	Maximum speed of scanning of documents in b & w 25 ppm				-
	Maximum speed of scanning color documents 25 ppm				-
	Functions of the buttons on the control panel Explore, cancel, duplex, tools				-
	Duty cycle 3000 scans per day				-
	Speed of scanner data 25 ppm - 300 DPI ¦ 50 ipm - duplex - 300 dpi (front) / 300 dpi (back)				-
	Scanner functions Integrated LCD screen				-
	Compliance TWAIN, WIA				-
	Media management				-
	Maximum size of documents 216 mm x 3100 mm				-
	Type of document that supports Plain paper, plastic tags, photo, card on				-
	Details of the size of the documents that support ADF - up to 216 x 3100 mm flat ¦ - up to 216 x 297 mm				-
	Document feeder type Automatic				-
	Storage of documents 50 sheets				-
	Expansion / connectivity				-
	Interfaces USB 3.0				-

	Different				-
	Cables included 1 x USB cable				-
	Compatible with Windows 7 Applications and devices "Compatible with Windows 7" are assurance of Microsoft that these products were subjected to tests for compatibility and reliability with 32-bit and 64-bit Windows 7.				-
	Compliance CISPR 24, c-Tick, BSMI, cUL, EN 61000-3-2, EN55022, ICES-003, SASO, EN 61000-3-3, CISPR 22, CCC, EMC, RoHS, IEC 60950-1, EN 60950-1, UL 60950-1 Second Edition, KCC, BSMI CNS 13438, FCC CFR47 Part 15 B, CSA C22.2 No. 60950-1 Second Edition, KN22, EAC, TER, PVOC, CoC				-
	Environmental standards				-
	ENERGY STAR certification Yes				-
	Power				-
	Feeding device External electric transformer				-
	Voltage required AC 120/230 V (50/60 Hz)				-
	Power consumption standby 4.51 Watts				-
	Stop power consumption 1.4 Watts				-
	Software / system requirements				-
	Software included Readiris Pro, Cardiris, Nuance PaperPort, HP Scan HP Scanner Tools Utility				-
	OS required Microsoft Windows 7 (32/64 bits), Windows 8 (32/64 bits), Windows 8.1 (32/64 bits), Apple MacOS X 10.9, Apple MacOS X 10.10, 10 Windows (32/64 bit)				-
	Details of the system requirements Windows 7/8/8.1/10 - 2 GHz - RAM 2 GB - HD 170 MB ¦ MacOS X 10.9/10.10 - 1 GB RAM				-
	Dimensions and weight				-
	Width 46 cm				-
	Depth 38.7 cm				-
	Height 14.5 cm				-
	Weight 5.58 kg				-
	Dimensions and weight (packing)				-
	Width of packing 57.9 cm				-
	Packaging depth 49.9 cm				-
	Height of packing 24.5 cm				-
	Packing weight 7.6 kg				-
	Environment parameters				-
	Minimum operating temperature 10 ° C				-
	Maximum operating temperature 35 ° C				-
	Operating humidity range 15 80% (non-condensing)				-
149	Computer Ink, set (colored/black) Genuine Canon GI 790 ink	set	1	500.00	500.00
150	USB Flash Drive 8 GB	pc	2	350.00	700.00
151	**Desktop Computer (Assembled)**	units	1	30,000.00	30,000.00

	Intel Core i3 10th Gen or Higher				-
	At least 8 GB DDR4 RAM				-
	Intel H310 Ultra Durable Motherboard				-
	At least 240 GB SSD				-
	18.5" LED monitor				-
	Genuine Windows 10 OS				-
	Casing with PSU				-
152	**Laptop**	unit	1	40,000.00	40,000.00
	Intel Core i5-1035G1 10th generation Processor 1.0 GHz 6M Cache, upt to 3.60 GHz				-
	Licensed Windows 10 Home				-
	4GB onboard memory 1xS0-DIMM socket (for expansion)				-
	14" (16.9) LED-backlift FHD (1920x1080) 60Hz anti-glare panel with 45% NTSc				-
	NVIDIA Geforce MX330, with 2gb GDDR6 VRAM				-
	256 GB Pcle Gen3x2 SSD				-
153	**CPU and Printer Only**	set	1	35,000.00	35,000.00
	Desktop: Intel Core i3-9100-delete 9th gen or higher processor 9M Cache up to 4.10 GHz or higher				-
	Intel H310 Untra Durable motherboard, gaming LAN, anti-sulfur resistor LGA-1151				-
	At least 8GB DDR4 2400 Desktop Memory				-
	At least 240GB SSD				-
	Casing with power supply				-
	Genuine Windows 10 Home (OEM)				-
	Printer: 3n1 print, scan, photocopy				-
	print vellum board type of paper				-
	maximum paper size 8.5"x44"				-
	ink tank system color black magenta cyan yellow				-
	USB connectivity				-
154	External Hard drive (2TB)	pcs	3	6,000.00	18,000.00
	Data Transfer: at least 640 MBPS				-
	Usb 3.0 interface plug and play				-
155	**Computer complete set (CPU)** (Assembled)	pc	1	14,900.00	14,900.00
	Processor core i3 8th Gen or higher				-
	Memory-4GB				-
	240 GB SSD				-
	Intel H310 chipset motherboard				-
	casing w/ 300 w PSU				-
	FOR VSU ALANGALANG				-
	For Items No. 156 to 166 Delivery (FOB) is at VSU Alangalang				
156	**Flash Drive, 32 GB**, USB 3.0	pcs	2	400.00	800.00
157	**ANTIVIRUS SOFTWARE**, at least 3 devices, 2 years	pc	1	1,500.00	1,500.00

#	Item	Unit	Qty	Unit Price	Amount
158	**External Hard Disk, 1TB**	unit	4	3,500.00	14,000.00
159	**UPS, 650VA**, at most 4 hrs charging time	pcs	4	3,600.00	14,400.00
	Power rating; 650VA				
	Voltage range; 140 - 290V				
	Frequency; 50/60hz+5%				
	Voltage inverter mode; 20v+10%				
	capacity; 50/60hz+1%				
	Transfer Time:				
	Over/under voltage transfer to battery mode				
	Over load/short circuit, current limit for both mains & battery modes				
	4 back ports				
	4 non back ports				
	Built in CC/CV battery charger and battery over drain protection.				
160	AVR, 1500watts, with meter reader	units	2	4,400.00	8,800.00
	Frequency 60Hz, Delay output 3min.				
	Input, 1 for 110V & 3 for 220V				
	Output, 1 for 110 & 3 for 220V				
161	**Projector Screen**	unit	1	4,000.00	4,000.00
162	Tablet, RAM 2GB, memory at least 512GB, with WIFI LTE ready	unit	1	5,000.00	5,000.00
163	AVR, 3000watts, with meter reader	unit	1	5,500.00	5,500.00
164	Microsoft Office 2019 Home & Student FPP	package	1	8,000.00	8,000.00
165	**Printer, 3-in-1 (Print, Scan, Copy)**, Ink Tank	unit	4	8,500.00	34,000.00
	Scan, Print & photocopy				
	Print resolution: 5760 x 1440 DPI				
	Print speed black color; 33ppm				
	Print speed color; 15ppm				
	Paper size; A4, legal & letter				
	Scanner type; flatbed				
	220V				
166	**Printer for Continuous OR, dot Matrix**	unit	1	12,500.00	12,500.00
	at least 110 - 220 V				
	Power consumption 27W				
	Media type, continuous form, envelopes level 4 pin				
	Paper printer head 9 pin				
	Dot matrix				
	connectivity:				
	1 x parallel - 36 pin continuous				
	1 x serial - 9 pin D-Sub (DB-9)				
	1 x USB - 4 pin USB typeB				
	Draft speed 12cpi.				
	<mark>FOR VSU ISABEL</mark>				-
	<mark>For Items 167 to 175 is lot purchased (for clarification)</mark>				

167	**COMPUTER MONITOR**, LED	units	15	8,000.00	120,000.00
	Screen Size: at least 23.5" (59.7 cm)				-
	Display Type: Plane-to-Line Switching (PLS)				-
	Resolution: at least 1920x1080				-
	Contrast Ratio: 1000:1 (typical) 700:1 (minimum)				-
	Inputs: 1 x HDMI				-
	1 x VGA				-
168	**PROCESSOR**	pcs	15	3,500.00	52,500.00
	CPU Model: Intel Celeron G4900				-
	CPU Socket: LGA 1151				-
	No. of Cores: 2				-
	No. of Thread: 2				-
	Base Clock Speed: 3.1 GHz				-
	L3 Cache: 2 MB				-
	Memory support: DDR4 2400 MHz				-
	Channel Architecture: Dual Channel				-
	Graphics Chipset: Intel UHD Graphics				-
169	**MOTHERBOARD**	pcs	15	4,200.00	63,000.00
	Chipset: Intel H310				-
	CPU Socket: LGA 1151				-
	Memory Support: DDR4 2133, 2400, 2666				-
	Maximum Capacity: 32 GB				-
	Channel Architecture: Dual Channel				-
	Form Factor: Micro-ATX				-
170	**MEMORY**, DDR4, 4GB, 2666MHz, 2 x DIMM, for desktop	pcs	15	2,000.00	30,000.00
171	**HARD DRIVE/ DISK**, Internal, 1TB, SATA connection	pcs	15	3,800.00	57,000.00
172	**POWER SUPPLY**, 500-650 watts	pcs	15	2,500.00	37,500.00
	Output Capacity: 600W				-
	Input Voltage: 220V				-
	Input Frequency Range: 47-63 Hz				-
	Fan Size: 120mm Silent Fan				-
	Operation Temperature: 0-40˚C				-
173	**KEYBOARD & MOUSE**, usb type with mousepad	set	15	1,000.00	15,000.00
174	**OPTICAL DRIVE**, internal, SATA connection	pcs	5	2,000.00	10,000.00
175	**CASING,** MICRO ATX/MINI-ITX, SPCC+PLASTIC (ABS)	pcs	15	2,000.00	30,000.00
	(Panel thickness: 0.5mm), 420*201*365mm				-
176	**UPS,** 500 RS	pcs	5	5,000.00	25,000.00
	Output Power Capacity: 325 Watts/650VA				-
	Output Frequency: 50/60 Hz +/-1 Hz				-
	Output Connections: (2) Universal Receptacle				-
	Nominal Input Voltage: 230V				-
	Input Connections: NEMA 5-15P				-

	Maximum Input Current: 5A				-
	Battery Type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte leakproof				-
177	**UPS,** 650VA (AID650)	pcs	10	1,600.00	16,000.00
	Specification:				-
	UPS, AIDE400-850VA Single-phase				-
	Line-interactive with stabilizer UPS				-
	Input: 22-vAC, 50-60Hz				-
	Capacity: 650VA/390W				-
178	**PRINTER,** WIFI, ALL-in-One Ink Tank	pc	1	14,990.00	14,990.00
	Printer type: Print, scan, copy, fax with adf				-
	Print Speed:				-
	Photo Default - 10 x 15 cm / 4 x 6 ":				-
	Approx. 69 sec per photo (Border) / 90 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 ipm / 5.0 ipm *1				-
	Copy Quality: Draft / Standard / Best Quality				-
	Reduction / Enlargement: 25 – 400 %, Auto Fit Function				-
	Maximum Copy Resolution: 600 x 600 dpi				-
	Maximum Copy Size: Legal				-
	Scanner Type: Flatbed colour image scanner				-
	Maximum Scan Area: 216 x 297 mm (8.5 x 11.7")				-
	ADF Specifications:				-
	Support Paper Thickness: 64 – 95 g/m2				-
	Paper Capacity: 30 pages (A4), 10 pages (Legal)				-
	WIFI, WIFI Connect				-
179	**PRINTER Ink tank system-added**	unit	1	5,500.00	5,500.00
	SINGLE FUNCTION INKJET PRINTER				-
180	**CCTV CAMERA**	set	1	14,990.00	14,990.00
	4 Channel package- indoor and outdoor camera				-
	Easy DIY installation				-
	1080P High Definition CCTV cameras				-
	HD DVR that can accommodate up 2mp				-
	20 meters cables				-
	With capability to view via mobile phones and computers				-
	IR cameras				-
	1 year warranty				-
181	**Biometrics Fingerprint Time Recorder**	unit	1	14,500.00	14,500.00
	Specifications:				-
	*with simple access control function, built-in battery, TCP/IP				-
	*fingerprint/password authentication				-

	*standalone via USB				-
	*up to 3 fingerprint templates per user				-
	*password entry available				-
	*colored screen				-
	*with back-up battery				-
	*2.8 inches TFT Screen				-
	*Fingerprint Capacity: at least 1,000 (2,000 without SSR)				-
	*Record Capacity: at least 80,000				-
	*Dimension (WxHxD): 184mm x 136mm x 37.6mm-delete				-
182	**UPS, 650VA,** at most 4 hrs charging time	unit	2	3,000.00	6,000.00
183	**UPS, 650VA,** at most 4 hrs charging time	unit	2	3,600.00	7,200.00
184	**Printer, 3-in-1, Ink Tank**	unit	1	8,800.00	8,800.00
	Specs:				-
	*Colored Printer				-
	*Printer type: Print, Scan & Copy				-
	*Maximum Copy Size: A4				-
	*with free 1 set printer ink				-
	*with manual and software disc				-
185	Ribbon, for EPSON LQ300+	pcs	3	250.00	750.00
186	Ink, EPSON, T6641, black	bot	6	300.00	1,800.00
187	Ink, EPSON, L3110, 003, Black	bot	3	320.00	960.00
188	Ink, EPSON, L3110, 003, Cyan	bot	2	320.00	640.00
189	Ink, EPSON, L3110, 003, Magenta	bot	2	320.00	640.00
190	Ink, EPSON, L3110, 003, Yellow	bot	2	320.00	640.00
191	Ink, EPSON, T6641, black	bot	11	300.00	3,300.00
192	Ink, EPSON, T6642, cyan	bot	3	320.00	960.00
193	Ink, EPSON, T6643, magenta	bot	3	320.00	960.00
194	Ink, EPSON, T6644, yellow	bot	3	320.00	960.00
195	Ink, Cartridge for brother BTD60BK, Black	bot	2	470.00	940.00
196	Ink, Cartridge for brother BT 500 C, Cyan	bot	1	470.00	470.00
197	Ink, Cartridge for brother BT 500 M, Magenta	bot	1	470.00	470.00
198	Ink, Cartridge for brother BT 500 Y, Yellow	bot	1	470.00	470.00
199	**CPU**: Intel core i3 8th gen, without Casing	sets	3	20,000.00	60,000.00
	Mother Board:				-
	-Process Socket: Intel Socket 1151 for 8th Generation Core i7/Core i5/Core i3/Pentium/Celeron Processors, supports Intel 14nm CPU, supports intel Turbo Boost Technology 2.0				-
	-Memory: x DIMM, Max. 32GB, DDR4 2666/2400/2133 MHz Non-ECC, Un-buffered Memory				-
	-Supports HDMI 1.4b with max. resolution 4096 x 2160 @ 24 Hz/ 25600 x 1600 #60Hz				-
	-Supports D-sub with max. resolution 1920 x 1200 @ 60 Hz				-

	-1 x Pcle 3.0/2.0 x 16 (x16 mode,gray)				-
	-2 x Pcle 2.0x				-
	RAM: 8GB DDR4 2666Mhz				-
	Boot Drive: 256GB SSd				-
	Storage Drive: 2TB HDD				-
	Power Supply: 450w Power Supply				-
	- Peak Power: 450W				-
	-Rated Power: 350W				-
	-Efficiency: 80%				-
	-Fan: 12cm				-
	-Circuit Protection: OPP, OCP, OVP, & SCP				-
	-PCl-6 pin				-
200	**Sound System**	unit	1	15,000.00	15,000.00
	*AC220V or DC12V (w/ Rechargeable Batteries), w/ 2 wireless microphone, w/ 2 mic input, (1XLR, 1PL55), w/ FM Radio, Bluetooth, Guitar input, USB & SD Port, w/ 5 Band Equalizer and LCD Display, w/ Remote Control, Handle and wheels, Portable				-
201	**Wireless Presenter**	units	4	1,585.00	6,340.00
	*315MHZ RF:<1mw, laser level-class II, 12v battery, page up, down laser pointer, black				-
202	**Biometrics**	unit	1	14,500.00	14,500.00
	*finger print, face recognition and password attendance, capacity- 300, export data-USB Flash Drive, double lens camera, DC 9V-13V1.5				-
203	**Computer Set**	set	1	25,000.00	25,000.00
	at least Intel Core i3-7100 (3.9 GH) 3mb				-
	Gigabyte H110M-H-delete				-
	Motherboard: Intel H81/rev. 3.0				-
	Socket 1151/PC-Ex16/Micro ATX				-
	2DDR4-2CH/HD audio				-
	Gbe LAN/2 SATA 6 Gb 2USB 3.0				-
	8GB DDR4 HMHZ PC16000 RAM				-
	2TB SATA 6 GB/s 64MN Cache 3.5"				-
	at least 18.5" Monitor, Black				-
	w/ 70S user guide monitor driver software				-
	Desktop Keyboard, USB Type				-
	Mouse, USB Type				-
	w/ mouse pad (cutting mat-green)				-
	Micro ATX				-
	Casing w/ Fortress-delete				-
	w/ user's instruction				-
204	**Laptop**	unit	1	25,000.00	25,000.00
	at least Intel Core i5 (5th Gen or higher)				-
	at least 2.3 ghz				-
	at least 8gb RAM				-

	at least 240gb SSD				-
	Intel HD Graphics 5500				-
	at least 14" Screen Display				-
	Built-it Camera				-
	Bluetooth				-
	No Bios Password				-
	Minimal Dent				-
205	**Printer, 3-in-1**, Ink Tank	unit	1	8,000.00	8,000.00
	All-in-one color printer w/ scanner and copier with free 1 set printer ink				-
	<mark>FOR VSU TOLOSA</mark>				-
	For Items No. 167 to 205 Delivery (FOB) is at VSU Tolosa				
206	**RJ 45**	pcs	10	20.00	200.00
207	Ink, Epson, genuine, (BK) T664, 70ml	btls	1	280.00	280.00
208	**Flash Drive, 16GB**	pc	1	300.00	300.00
209	Ink, Epson, genuine, (BK) T664, 70ml	bottle	1	300.00	300.00
210	Ink, Epson, genuine, (C) T664, 70ml	bottle	1	320.00	320.00
211	Ink, Epson, genuine, (M) T664, 70ml	bottle	1	320.00	320.00
212	Ink, Epson, genuine, (Y) T664, 70ml	bottle	1	320.00	320.00
213	Laser pointer pen (Max Output: 5 mW. Wavelength: 650mm +/-10. Laser Color: Red Pen Length: 5.5cm Battery Type: 3*AG3 battery(included). Super bright laser Diode Beam.)	pcs	10	350.00	3,500.00
214	**Cable UTP CAT6, 305m/box**	box	1	500.00	500.00
215	Canon Cartridge 324	pc	1	9,040.00	9,040.00
216	**LAPTOP**	unit	1	30,000.00	30,000.00
	Specs: Intel Core i3 9th generation or higher Pro-delete, at least 8GB RAM Memory, 1TB Hard Disk Storage				
	14" LED Screen				
	Windows 10				
	with free falshdrive, bag, downlodable anti-virus				
	Installation of license office home and student				
	w/ after sales warranty & services				
217	**Network Switch**, gigabit (8 port)	unit	1	3,000.00	3,000.00
218	**1080p Full HD Webcam**	pc	16	1,750.00	28,000.00
	Specifications				
	Resolution: FHD 1080P 1920*1080				
	Frame Rate: 30fps				
	Built-in Mic: Single Mic				
	Lens Type: Full HD Glass lens				
	Focus Type: Fixed Focus*				
	Output Format: MJPEG YUY2				
	USB Transfer: USB 2.0 High-Speed				

	Viewing Angle: 60 degrees				
	System Requirements: Windows 7/ 8/ 8.1/ 10 or above				
	With 1 year warranty				
219	**Clear HD Sound Headset**	pc	16	2,950.00	47,200.00
	Specifications:				
	Speaker driver size				
	Speaker frequency response: 20 Hz- 20 kHz				
	Microphone frequency response: 100 Hz - 10 kHz				
	High fidelity 24-bit stereo: 48 kHz sampling rate				
	Digital signal processing:				
	acoustically tuned EQ delivers high-performance audio				
	wideband acoustic echo cancellation eliminates voice echo				
	48 kHz wideband mic with 16 bit output				
	24 bit high fidelity stereo output				
	USB 2.0 full speed compliant				
	Cable length: 6.5 feet (2 meters)				
	Compatibility: Mac, Windows - USB plug and play				
	With 1 year warranty				

Sgnd
DILBERTO O. FERRAREN
BAC Chairman