VISAYAS
STATE UNIVERSITY

PHILIPPINE BIDDING DOCUMENTS

(As Harmonized with Development Partners)

Supply and Delivery of I.T. Equipment and Supplies
(GOODS-21-11)

Government of the Republic of the Philippines

March 23, 2021; 9:00 AM
Cooperative Building, VSU Market, Visca, Baybay City, Leyte

Sixth Edition
July 2020

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Glossary of Acronyms, Terms, and Abbreviations

ABC – Approved Budget for the Contract.

BAC – Bids and Awards Committee.

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

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

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

BIR – Bureau of Internal Revenue.

BSP – Bangko Sentral ng Pilipinas.

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

CDA - Cooperative Development Authority.

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

CIF – Cost Insurance and Freight.

CIP – Carriage and Insurance Paid.

CPI – Consumer Price Index.
DDP – Refers to the quoted price of the Goods, which means "delivered duty paid."

DTI – Department of Trade and Industry.

EXW – Ex works.

FCA – "Free Carrier" shipping point.

FOB – "Free on Board" shipping point.

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

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

STFI – Government Financial Institution.

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

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

GOP – Government of the Philippines.

GPPB – Government Procurement Policy Board.

INCOTERMS – International Commercial Terms.

Infrastructure Projects – Include the construction, improvement, rehabilitation, demolition, repair, restoration or maintenance of roads and bridges, railways, airports, seaports, communication facilities, civil works components of information technology projects, irrigation, flood control and drainage, water supply, sanitation, sewerage and solid waste management systems, shore protection, energy/power and electrification facilities, national buildings, school buildings, hospital buildings, and other related construction projects of the government. Also referred to as *civil works or works*. (2016 revised IRR, Section 5[u])

LGUs – Local Government Units.

NFCC – Net Financial Contracting Capacity.

NGA – National Government Agency.

PhilGEPS - Philippine Government Electronic Procurement System.

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

PSA – Philippine Statistics Authority.

SEC – Securities and Exchange Commission.

SLCC – Single Largest Completed Contract.

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

UN – United Nations.

Section I. Invitation to Bid

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

1. The Visayas State University through the *GF, STF, TF 2021* intends to apply the sum of *Six Million One Hundred Twenty-Nine Thousand Thirty Pesos (PhP 6,129,030.00)* being the ABC to payments under the contract for *Supply and Delivery of I.T. Equipment and Supplies (GOODS-21-11)*. Bids received in excess of the ABC shall be automatically rejected at bid opening.

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

Item #	Item Description and Specifications	Unit	Qty	Unit Price	Total Price
1	**AVR, 500W (IC Controlled)**	unit	26	**500.00**	**13,000.00**
	◉Power Output: 500 W				
	◉Power Factor Correction (PFC): Active PFC with Value of 0.98				
	◉Fan Type: 1 x 120 mm Smart and Silent Fan Control 22 dBA				
	◉Safety Standards: FCC, CB, CCC, TUV, CE, C-tick, EMI, EMC, S-Intertek, CPT-AB15				
2	**Computer Monitor 24"**	set	6	**10,000.00**	**60,000.00**
	◉Panel Size: Wide Screen 23.8"(60.5cm) 16:9				
	◉Color Saturation : 72%(NTSC)				
	◉Panel Type : In-Plane Switching				
	◉True Resolution : 1920x1080				
	◉Brightness(Max) : 250 cd/m				
	◉Contrast Ratio (Max) : 1000:1				
	◉Response Time : 5ms (Gray to Gray)				
	◉Display Colors : 16.7M				
	◉Flicker free				
	Voltage input: 110-240V				
3	**Desktop Computer (i7)**	unit	3	**45,000.00**	**135,000.00**
	◉Processor: Intel® Core™ i7 8th Generation or higher				
	◉Chipset: Intel®H310				
	◉Graphics: Intel® HD Graphics Discrete graphics				
	◉Memory: at least 4 GB Dual Channel, DDR4 at 2666MHz expandable to 32 GB				
	◉Expansion Slots: 1 x M.2, 2 x PCI-e x 1, 1 x PCI-e x 16				
	◉SATA: at least 4 x SATA 6Gb/s *1				
	◉Storage: at least 250 GB M.2 SSD				

	◙Operating System: Genuine Windows 10 Home				
	◙Power Supply: at least 500 W Peak with ATX case				
	◙Monitor: 24" LED IPS Full HD				
	◙Keyboard and Mouse				
4	**External Hard Disk Drive (Portable, 2TB), USB 3.0**	unit	5	**5,500.00**	**27,500.00**
	◙Shock-absorbing silicon casing				
	◙Interface: USB 3.1 (Max.5Gb/s)				
	◙Capacity: 2TB				
	◙Texture: Plastic/Rubber				
	◙Operating Voltage: DC 5V, 900mA				
	◙System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10, Mac OS X 10.6 or later, Linux Kernel 2.6 or later				
5	**Printer, Laser Jet**	unit	3	**7,500.00**	**22,500.00**
	◙Function: Print Only				
	◙Print speed black (normal, A4): Up to 20 ppm				
	◙Print speed: Print speed up to 21 ppm (black)				
	◙Print speed black (normal, letter): Up to 21 ppm				
	◙Print quality black (best): Up to 1,200 x 1,200 dpi				
	◙Connectivity, standard: Hi-Speed USB 2.0 port, Wireless 802.11 b/g/n				
	◙Compatible Operating Systems: Windows: (32/64 bit),				
6	**Laptop 15.6", AMD Ryzen 3750**	unit	1	**72,000.00**	**72,000.00**
	◙AMD Ryzen 7 3750H Processor 2.3ghZ Up to 4GHz				
	◙Licensed Windows 10 Home				
	◙15.6" FHD (1920x1080), 120Hz, IPS-Level				
	◙at least 4GB AMD Radeon RX 5500M GDDR6				
	◙at least 16GB DDR4				
	◙at least 512GB NVMe PCIe Gen3x2 SSD				
	◙Per-Key RGB Backlight Keyboard				
	◙802.11 ac Wi-Fi + Bluetooth v5				
	◙1x Type-C USB3.2 Gen1				
	◙3x Type-A USB3.2 Gen1				
	◙1x RJ45				
	◙1x Micro SD				
	◙1x (4K @ 60Hz) HDMI				
	◙1x Mini-DisplayPort				
	◙at least 6-Cell Li-Ion Battery (Type) 51 Battery (Whr)				
7	Ink cartridge, photocopier "EPSON WF-C869R 02 Yellow, T9734, 192.4ML"	pc	3	**9,490.00**	**28,470.00**
8	Ink cartridge, photocopier "EPSON WF-C869R 02 Cyan, T9732, 192.4ML"	pc	3	**9,490.00**	**28,470.00**
9	Ink cartridge, photocopier "EPSON WF-C869R 02 - black"	pcs	5	**7,000.00**	**35,000.00**

10	Ink cartridge, photocopier "EPSON WF-C869R 02 Magenta, T9733, 192.4ML"	pc	3	9,490.00	28,470.00
11	**Computer Keyboard USB**	pcs	15	400.00	6,000.00
	◉Standard Keyboard with 104 Keys				
	◉USB Connection				
	◉Low Profile Key Caps				
	◉Minimum Key Noise				
	◉Laser Printing for Key Layout				
	◉Spill Resistant Design				
12	**All-in-One Ink Tank Printer Wi-Fi Duplex with ADF**	unit	2	20,000.00	40,000.00
	◉Compact integrated tank design				
	◉Print speeds up to 15ipm for black and 8.0ipm for colour				
	◉Control Panel: 2.4 " Colour LCD Touch Panel				
	◉Auto-duplex printing Fax and ADF capability				
	◉Ethernet & Wi-Fi Direct				
	◉Borderless Printing up to A4 size				
	◉Spill-free ink refilling				
13	Epson L6160 Black 001	btls	15	400.00	6,000.00
14	Epson L6160 Cyan 001	btls	8	350.00	2,800.00
15	Epson L6160 Magenta 001	btls	12	350.00	4,200.00
16	Epson L6160 Yellow 001	btls	7	350.00	2,450.00
17	External Hard Disk Drive (Portable, 1TB), USB 3.0	unit	12	3,800.00	45,600.00
18	**HDMI to HDMI cable**	piece	10	500.00	5,000.00
	◉Chord 1.8 meter long;				
19	UPS, at least 500 w	piece	7	2,550.00	17,850.00
20	**Mouse, Wired, Optical, USB**	pieces	22	210.00	4,620.00
	◉USB Port Connectivity				
	◉Sensor: Optical				
	◉DPI: 1600				
	◉Work method: Wired				
	◉Buttons: Left button, middle button, right button				
	◉Scroll wheel direction: Two way				
	◉Design highlights: Easy installation. 1600 DPI high-definition tracking engine. Anti-slip scroll wheel. Full-size, ambidextrous design				
21	Flash Drive, at least 32GB USB 3.0	piece	24	800.00	19,200.00
22	Ink, Epson, genuine, (Y) T664, 70 ml	pieces	128	350.00	44,800.00
23	Ink, Epson, genuine, (BK) T664, 70 ml	pieces	237	350.00	82,950.00
24	Ink, Epson, genuine (M) T664, 70 ml	pieces	125	350.00	43,750.00
25	Ink, Epson 003,Genuine Black 65mL	btl	67	350.00	23,450.00
26	Ink, EPSON 003,Genuine Cyan 65mL	btl	43	350.00	15,050.00
27	Ink, EPSON 003,Genuine Magenta 65mL	btl	43	350.00	15,050.00
28	Ink, EPSON 003,Genuine Yellow 65mL	btl	43	350.00	15,050.00
29	Ink cartridge Cannon Pixma 810 black	pc	22	800.00	17,600.00
30	Ink Cartridge Canon Pixma 811 Color	pcs	22	1,100.00	24,200.00

31	DVD+RW 8x 4.7Gb w/indiv case	pieces	10	**50.00**	**500.00**
32	UPS, at least 800 watts, 4 hours charging time	unit	2	**5,000.00**	**10,000.00**
33	Ink, Epson, genuine (C) T664, 70 ml	pieces	130	**350.00**	**45,500.00**
34	Toner, Cartridge, HP Laser Jet CB435A, Black	piece	4	**3,500.00**	**14,000.00**
35	Ink, Brother BTD60BK, Black	btls	20	**400.00**	**8,000.00**
36	Ink, Brother BT5000C Cyan	btls	15	**350.00**	**5,250.00**
37	Ink, Brother BT5000M Magenta	btls	15	**350.00**	**5,250.00**
38	**Laptop 14" (i5)**	unit	3	**44,000.00**	**132,000.00**
	◉Processor: Intel Core i5-1035G1 Processor 1.0 GHz 6M Cache, up to 3.60 GHz or higher				
	◉Operating system: Licensed Windows 10 Home				
	◉Memory: 4GB Onboard memory, 1 x SO-DIMM socket (for expansion)				
	◉Display: 14.0" (16:9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC				
	◉Video Processor: NVIDIA GeForce MX330 , with 2GB GDDR5 VRAM				
	◉Storage: 512GB PCIe Gen3 x2 SSD				
39	Ink, Brother BT5000Y Yellow	btls	15	**350.00**	**5,250.00**
40	**Desktop Computer (w/o Monitor)**	unit	16	**24,000.00**	**384,000.00**
	◉Processor: Intel Core i3-9100F Processor (9M Cache, up to 4.10 GHz)				
	◉Motherboard Intel H310 Ultra Durable motherboard, Gaming LAN, Anti-Sulfur Resistor, LGA-1151				
	◉Memory: 8GB DDR4 2400 DIMM Desktop Memory				
	◉SSD: 240GB				
	◉Casing with Power Supply				
	◉perating System: Genuine Windows 10 Home (OEM)				
	◉w/ USB Keyboard and Mouse				
41	**UPS, 1000 VA**	unit	9	**3,000.00**	**27,000.00**
	◉1000VA/600W capacity				
	◉Frequency Range: 60 Hz				
	◉Freq. Range (Batt. Mode): 60 Hz ± 1 Hz				
	◉Transfer Time: Typical 4-8 ms				
	◉Waveform (Batt. Mode): Simulated Sine Wave				
	◉Back-up Runtime: 10-15 mins				
	◉Voltage: 220 VAC				
	◉Voltage Range: 162-270 VAC				
42	**Arduino Laboratory Kit**	sets	25	**2,500.00**	**62,500.00**
	◉1xUNO R3 Board based on Arduino®				
	◉1xUSB Cable				
	◉1x (16×2) LCD with I2C Adapter				
	◉1xRC522 Module				
	◉1xRFID Card				
	◉1xKey Chain				
	◉1xJoystick Module				

	◙1xKey Board				
	◙1xRTC Module				
	◙1xWater Level Sensor				
	◙1xDHT11 Humidity Sensor				
	◙1xRGB Module				
	◙1xULN2003 Motor Driver Module				
	◙1x28BYJ-48 Stepper Motor				
	◙1×1-Channel Relay Module				
	◙1xMB-102 Breadboard				
	◙65xJumper Wire				
	◙10xFemale-Male Jumper Cable				
	◙1xSound Sensor Module				
	◙1xRemote				
	◙1x10K Potentiometer				
	◙1×1 Digital Tube				
	◙1×4 Digital Tube				
	◙1xMatrix Tube				
	◙1xSG90 Micro Servo				
	◙2xBuzzer				
	◙2xBall Switches				
	◙3xPhotoresistance				
	◙5xTactile Switches with Caps				
	◙1x9V Battery Clip with DC Jack				
	◙15x5mm LED				
	◙30xResistance (220ohm, 1K ohm, 10K ohm)				
	◙1xFlame Sensor				
	◙1xIR Receiver Sensor				
	◙1x74HC595				
	◙1xLM35DZ				
43	**Unifi 500W PoE+ Switch**	unit	4	**35,000.00**	**140,000.00**
	◙24 ports PoE+ Switch 500W				
	◙Network Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports				
	◙Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band				
	◙Total Non-Blocking Throughput : 26 Gbps				
	◙Switching Capacity: 52 Gbps				
	◙Forwarding Rate: 38.69 Mpps				
	◙MAC Address Table: 16384				
	◙Maximum Aggregations: 6				
	◙Monitoring Sessions 1				
	◙Maximum VLANs 255				
	◙Power Method 100-240VAC/50-60 Hz, Universal Input				
	◙Power Supply AC/DC, Internal, 500W DC				
	◙Max. Power Consumption: Including PoE Output: 500W Excluding PoE Output: 30W				

	◙ESD/EMP Protection Air: ± 24 kV, Contact: ± 24 kV				
	◙Shock and Vibration ETSI300-019-1.4 Standard				
	◙Operating Temperature -5 to 40° C (23 to 104° F)				
	◙Operating Humidity 5 to 95% Noncondensing				
	◙Certifications CE, FCC, IC				
	◙PoE Interfaces PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)				
	◙Max. PoE+ Wattage per Port by PSE 34.2W				
	◙Voltage Range 802.3at Mode 50–57V				
	◙Max. Passive PoE Wattage per Port 17W				
	◙24V Passive PoE Voltage Range 20-27V				
	◙Should be compatible with existing Unifi Controller				
	◙1 year warranty				
44	**Video Card, RTX 2060**	unit	1	**28,000.00**	**28,000.00**
	◙NVIDIA GEFORCE RTX 2060				
	◙Stream Processors (CUDA): 1920				
	◙RTX-OPS: 37T				
	◙Giga Rays/s: 5				
	◙Base Clock: 1620 MHz				
	◙Video Memory: 6GB DDR 6				
	◙Graphics Card Power (W): 160W				
45	**Mouse, Wired Optical, PS/2**	pc	17	**210.00**	**3,570.00**
	◙Ergonomic Design: Symmetric				
	◙Sensor : Optical				
	◙Type: Wired (PS2)				
	◙System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10				
	◙2 buttons + scrolling wheel optical mouse				
	◙Works on most surfaces				
	◙Microsoft system compatible				
	◙Resolution: 1000 DPI				
46	**Printer, computer, continuous ink system, 4-in-1 (Print, Scan, Xerox copy, Fax)**		4	**13,500.00**	**54,000.00**
	◙Print Method:On-demand ink jet (piezoelectric)				
	◙Minimum Ink Droplet Volume:3 pl				
	◙Print Direction:Bi-directional printing, Uni-directional printing				
	◙Nozzle Configuration:180 nozzles Black, 59 nozzles per colour (Cyan, Magenta, Yellow)				
	◙Maximum Resolution:5760 x 1440 dpi (with Variable-Sized Droplet Technology)				
	◙USB:USB 2.0				
47	**Power supply, 700 watts**	piece	1	**2,700.00**	**2,700.00**
	◙700 watts power rating				
	◙High efficiency with 80 PLUS certification				
	◙24/7 continuous power output with 40℃ operating temperature				

	◙Class-leading single +12V rail				
	◙Active PFC Circuitry				
	◙PCI-E 8pin and PCI-E 6pin connector support				
	◙Silent running 120mm fan with 18dBA				
48	**Desktop Computer (i5)**	unit	2	**45,000.00**	**90,000.00**
	◙Processor: Intel Core i5 9400F or higher				
	◙Motherboard: Intel H310 Chipset, Anti-Sulfur Resistors Design, Gaming LAN with Bandwidth Management				
	◙Memory: 16GB (2x8) DDR4 or higher				
	◙SSD: at least 500GB M.2,				
	◙Optical Drive: DVD-RW				
	◙Casing: W/ 700W PSU,				
	◙Monitor: AT LEAST 23" IPS FHD,				
	◙Operating System: Genuine Windows 10 Home (OEM)				
	◙Keyboard and mouse combo				
	◙500W IC controlled AVR				
	with headset and webcam				
49	Toner, NPG 67, Yellow for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	1	**17,000.00**	**17,000.00**
50	**Computer Server (File Server/ Network Attached Storage)**	unit	1	**150,000.00**	**150,000.00**
	◙CPU Model: Intel Atom C3538				
	◙CPU Architecture: 64-bit				
	◙CPU Frequency: 4-core 2.1 GHz				
	◙Hardware Encryption Engine (AES-NI)				
	◙System Memory: 16 GB DDR4 non-ECC UDIMM				
	◙Memory Module Pre-installed: 16 GB (16GBx1)				
	◙Total Memory Slots: 4				
	◙Maximum Memory Capacity: 64 GB (16 GB x 4)				
	◙Storage: Drive Bays (12)				
	◙Maximum Drive Bays with Expansion Unit: 24				
	◙Compatible Drive Type: 3.5" SATA HDD, 2.5" SATA HDD, 2.5" SATA SSD				
	◙Maximum Internal Raw Capacity: 192 TB (16 TB drive x 12)				
	◙Maximum Raw Capacity with Expansion Units: 384 TB (192 TB + 16 TB drive x 12)				
	◙Maximum Single Volume Size: 108 TB				
	◙Hot Swappable Drive				
	◙External Ports: RJ-45 1GbE LAN Port				
	◙4 (with Link Aggregation / Failover support)				
	◙USB 3.0 Port: 2				
	◙Expansion Port: 1				
	◙PCIe: PCIe Expansion				
	◙1 x Gen3 x8 slot (black, x4 link)				
	◙Internal Drives: Btrfs - EXT4				

		unit	14	11,000.00	154,000.00
	◉External Drives: EXT3 - FAT -NTFS -HFS+ - exFAT*				
	◉Form Factor (RU): 2U				
	◉Rack Installation Support: 4-post 19" rack				
51	**Computer Printer, 3-in-1/Multifunction Colored-Ink Tank**	unit	14	**11,000.00**	**154,000.00**
	◉Ultra-low-cost printing: Print up to 8,100 pages in black and 6,500 in colour				
	◉Next generation ink filling system: Enjoy hassle and mess-free refills with the enhanced ink bottles				
	◉3-in-1: Print, copy & scan and borderless photo printing				
	◉Nozzle Configuration: 180 Nozzles Black, 59 Nozzles per Color				
	◉Minimum Droplet Size: 3 pl, With Variable-Sized Droplet Technology				
	◉Ink Technology: Dye Ink				
	◉Printing Resolution: 5,760 x 1,440 DPI				
52	**Electric Paper Shredder**	unit	2	**40,000.00**	**80,000.00**
	◉16 sheets shredder Infrared automatic paper feeding				
	◉Shredding Capacity: <10 Sheets/Shred				
	◉Shredding Medium: Photo				
	◉Shredding Medium: Card				
	◉Shredding Medium: CD				
	◉Shredding Medium: Paper				
	◉Capacity: <50L				
	◉Power: Electricity				
	◉Shredder Type: Cross-Cut				
	◉Security grade: s4				
	◉Volume: 30L				
	◉Power: 400w				
53	**Wireless Optical Mouse**	pcs	6	**1,000.00**	**6,000.00**
	◉Adjustable 500/1000 DPI high-definition tracking engine				
	◉Reliable 2.4GHz wireless connection, perfect for anti-jamming				
	◉Supports 4D scroll wheel and optical buttons No installation software or drivers required: plug and play				
	◉Powered by 2 x AA alkaline batteries, you can use this mouse with only one battery				
54	Ink continuous, refill, black (Brother DCP T310)	btls	6	**400.00**	**2,400.00**
55	Ink continuous, refill, black (Brother DCP T300/MFC 220)	btls	8	**400.00**	**3,200.00**
56	Ink continuous, refill, cyan (Brother DCP T300/MFC 220)	btls	6	**400.00**	**2,400.00**
57	Ink continuous, refill, cyan (Brother DCp T310)	btls	6	**400.00**	**2,400.00**
58	Ink continuous, refill, magenta (Brother DCP T310)	btls	6	**400.00**	**2,400.00**
59	Ink continuous, refill, yellow (Brother DCP T300/MFC 220)	btls	6	**400.00**	**2,400.00**

60	Ink continuous, refill, magenta (Brother DCP T300/MFC 220)	btls	6	400.00	2,400.00
61	**Robotic Vacuum Cleaner**	unit	1	16,000.00	16,000.00
	◙Dynamic vision navigation				
	◙smart control water tank				
	◙2500Pa suction				
	◙App remote Control 100-240V				
	◙15 sensors				
	◙All-new vision navigation system fast capturing clean location and building a precise cleaning map path				
	◙Powerful chip: VSLAM algorithm + CortexTM-A7 quad-core professor				
	◙200ml automatic intelligent electric control water tank				
	◙Up to 20mm Crossing obstacles				
	◙Cleaning in details: Floating Suction Nozzle + Strong Main Brush + High-precise Filtering				
62	**ATX Power Supply (500W)**	pieces	8	980.00	7,840.00
	◙Single 6pin				
	◙24pin connector				
	◙Dual 4pin for board				
	◙4 sata supply				
	◙4 molex supply				
63	**Projector Screen**	pc	1	15,000.00	15,000.00
	◙manual pull-down with a speed control mechanism				
	◙Ceiling/Wall Mount				
	◙Aspect Ratio 16:9				
	◙Screen Height at least 2030mm				
	◙Screen at least Width 1145mm				
	◙Metal casing				
64	**External Solid State Drive, (Portable, 500GB), USB 3.1**	pc	1	6,000.00	6,000.00
	◙Storage Capacity: 500 GB or higher				
	◙Connection Interface: 1 x USB 3.1 (USB Type-C)				
	◙Maximum Read Speed: 550 MB/s				
	◙Type Solid-State Drive				
	◙Form Factor: 2.5"				
	◙Cooling System Passive				
	◙Environmental Resistance Shock				
	◙IP Rating IP55				
65	Ink, Catridge, LC 539XL-BK, DCP-J100	box	3	450.00	1,350.00
66	Ink, Cartridge, LC535XL-Yellow, DCP-J100	box	3	400.00	1,200.00
67	Ink, Cartridge, LC535XL - Magenta, DCP-J10	box	3	400.00	1,200.00
68	Ink, Cartridge, LC535XL - Cyan, DCP-J100	box	3	400.00	1,200.00
69	Ink, Brother LC-539XL, Black	pc	5	470.00	2,350.00
70	Ink, Brother LC-539XL, Cyan	pc	5	470.00	2,350.00
71	Ink, Brother LC-539XL, Magenta	pc	5	470.00	2,350.00

72	Ink, Brother LC-539XL, Yellow	pc	5	470.00	2,350.00
73	Ink, Refill, UNIKIT for CIS black,yellow,cyan,magenta	set	1	790.00	790.00
74	Computer Webcam	pieces	10	1,000.00	10,000.00
75	EPSON L220 Ink Cartridge Black	btls	20	300.00	6,000.00
76	**Speaker, for PC, 2.1 (Speaker with Subwoofer)**	pc	5	1,270.00	6,350.00
	◉Power Output : rms 4.5w×2 sw: 12w				
	◉Signal to noise ratio : 80dba				
	◉Frequency Response : 80hz~20khz (±6db)				
	◉R/l: 300±50mv sw: 100 ± 20mv				
	◉Aux/USB/SD card				
	◉Bass driver :4 inch				
	◉Treble driver :2 3/4 inch				
77	EPSON L220 Ink Cartridge Cyan	btls	11	300.00	3,300.00
78	EPSON L220 Ink Cartridge Magenta	btls	11	300.00	3,300.00
79	EPSON L220 Ink Cartridge Yellow	btls	11	300.00	3,300.00
80	**M.2 Solid State Drive (for Laptop)**	unit	1	4,000.00	4,000.00
	◉Capacity: 256GB				
	◉Form Factor: M.2 2280				
	◉NAND Flash: 3D NAND				
	◉Interface: PCIe Gen3x4				
	◉Performance (Max): Read 1800MB/s, Write 1200MB/s				
	◉Maximum 4k random read/write IOPS: up to 220K/200K				
81	**Desktop Microphone**	pieces	6	650.00	3,900.00
	◉Compatible with: Desktop/Notebook/PC, Windows 7-10				
	◉Pickup: 6mm Condenser Mic				
	◉Microphone Directivity: Omnidirectional				
	◉2Sensitivity: -58db±3db				
	◉Signal-to-noise Ratio: ≤50dB				
	◉Cable Length: 2.5m				
	◉Type: 3.5mm Plug				
82	**Web Camera for PC**	unit	6	2,500.00	15,000.00
	◉Image sensor: 1 / 2.9				
	◉Lens: 3.6mm/75.7 °				
	◉Effective pixel: 1932 (H) * 1088 (V)				
	◉Horizontal resolution: 2MP				
	◉SNR: > 50dB				
	◉Video stream: H.264:1920 * 1080 / 1920 * 720 / 640 * 360 MJPEG: 1920 * 1080 / 1920 * 720 / 640 * 360				
	◉Video Frame rate: 25FPS / 30FPS				
	◉Electronic shutter: Auto				
	◉Protocol: UVC / UVA				
	◉Video output: USB video stream				
	◉Working voltage: DC5V / 160mA ± 6mA				
	◉Working environment: -20 ℃ to 60 ℃				

83	**Surge supressor 6 outlets**	unit	2	**200.00**	**400.00**
	◎Maximum capacity: 2500W				
	◎Voltage Surge Protector (protects appliances from voltage spikes)				
	◎6 Neon Switch				
	◎1 Circuit Breaker (protects appliance from overload or short circuit)				
	◎3 Two-Prong Outlets				
	◎3 Three-Prong Outlets w/ Grounding				
	◎90 degree outlet orientation				
	◎With line/noise filter				
	◎Royal Cord #16/3 (5.00 meters)				
	◎Metal casing				
84	**External Hard Disk Drive, (Portable 1TB), USB 3.0**	piece	3	**3,500.00**	**10,500.00**
	◎Hard Drive Type:2.5" HDD				
	◎USB Interface: USB 3.0				
	◎Capacity: 1TB				
85	**HP Laser Jet CP1025 color Imaging Drum**	pc	2	**6,000.00**	**12,000.00**
	◎HP126A Imaging Drum (14,000 pages) for HP CP1025,LaserJet Pro Color 100 M175a,LaserJet Pro M275nw Printers.				
86	HD Webcam	pc	1	**5,200.00**	**5,200.00**
87	**Digital Multimeter**	pc	1	**7,000.00**	**7,000.00**
	◎DCV: 400m/4/40/400/1000V				
	◎ACV: 4/40/400/1000V ±(1.2%+7)				
	◎DCA: 400μ/4000μ/40m/400m/4/10A				
	◎ACA: 400μ/4000μ/40m/400m/4/10A				
	◎Resistance: 400/4k/40k/400k/4M/40MΩ				
	◎Capacitance: 50n/500n/5μ/50μ/100μF				
	◎Frequency: 5/50/500/5k/50k/100kHz				
	◎Continuity: Buzzer sounds and LED lights up at between 0Ω and 85Ω（±45Ω. Open voltage: Approx. 0.4V				
	◎Diode test: Open voltage:approx.1.5V				
	◎Battery Check: Approximate value（30Ω load）1.5V battery only				
	◎Display numeral display: 4000				
	◎Sampling rate: 3 times/sec.				
	◎Bandwidth: 40～400Hz（Sine wave）				
	◎Fuse: 0.5A/1000V 30kA Φ6.35×32mm 10A/1000V 30kA Φ10×38mm				
	◎Battery: R6Px2				
	◎Battery life: Approx.400h (manganese battery) at DCV rangeSafety: IEC61010CAT.Ⅲ600V/CAT.Ⅱ1000VDCV: 400m/4/40/400/1000V				
	◎ACV: 4/40/400/1000V ±(1.2%+7)				
	◎DCA: 400μ/4000μ/40m/400m/4/10A				
	◎ACA: 400μ/4000μ/40m/400m/4/10A				

	◙Resistance: 400/4k/40k/400k/4M/40MΩ				
	◙Capacitance: 50n/500n/5μ/50μ/100μF				
	◙Frequency: 5/50/500/5k/50k/100kHz				
	◙Continuity: Buzzer sounds and LED lights up at between 0Ω and 85Ω（±45Ω）. Open voltage:Approx. 0.4V				
	◙Diode test: Open voltage:approx.1.5V				
	◙Battery Check: Approximate value（30Ω load）1.5V battery only				
	◙Display numeral display: 4000				
	◙Sampling rate: 3 times/sec.				
	◙Bandwidth: 40～400Hz（Sine wave）				
	◙Fuse: 0.5A/1000V 30kA Φ6.35×32mm 10A/1000V 30kA Φ10×38mm				
	◙Battery: R6Px2				
	◙Battery life: Approx.400h (manganese battery) at DCV range				
	◙Safety: IEC61010CAT.Ⅲ600V/CAT.Ⅱ1000V				
88	**HDMI Splitter (8 Port)**	unit	3	**7,000.00**	**21,000.00**
	◙Display Connections- 8				
	◙Device HDMI In: 1 x HDMI type A Female (Black)				
	◙Display HDMI Out: 8 x HDMI type A female (black)				
	◙Power 1 x DC jack				
	◙LEDs Power: Green				
	◙Input: 1 (green)				
	◙Output: (1-8): 1 (green)				
	◙HDMI Resolution: 4k x 2k, 1080p				
	◙Consumption: 5 VDC, 14.84W				
	◙Operating Temperature: 32 to 122F (0 to 50C)				
	◙Storage Temperature: -4 to 140F (-20 to 60 C)				
	◙Humidity: 0 to 80% RH (non-condensing)				
	◙Housing Metal				
89	**Memory Card Holder**	pc	1	**200.00**	**200.00**
	◙22 slots Memory Card storage				
	◙Carrying Pouch Holder Wallet Case Bag				
90	**Memory Card Reader**	pc	1	**650.00**	**650.00**
	◙Interface type: USB 3.0				
	◙Transfer rate:5Gbps				
	◙Apply to SD Card, Memory Stick Card, CF Card, MS Card				
91	**SD Card, MicroSD, 32GB**	pc	1	**500.00**	**500.00**
	◙32 GB High Speed 80MB/s				
	◙MicroSDHC UHS-I Class10 UI				
	◙A1 Performance memory card with SD Adapter				
92	SD Card, 64GB	pcs	1	**800.00**	**800.00**
	◙64GB SD Card				
	◙SDHC UHS-1 Class 10 80MB/s				

93	**HDMI Extender**	pc	1	**4,000.00**	**4,000.00**
	◉120M HDMI Extender Cascade Connection				
	◉4k Via Cat5e/6				
	◉CAT6 RJ45 Ethernet Lan Network Card Cable				
	◉Transmitter Receiver TX RX W/ IR				
94	**SD Card, 128 GB**	pcs	2	**1,700.00**	**3,400.00**
	◉Memory SD Card- 128 GB UHS-I SDXC				
	◉Card Type: SDXC				
	◉Storage Capacity: 128GB				
	◉Bus type: UHS-1				
	◉Data Transfer Read Speed: 170 MB/s Maximum (Burst)				
	◉Write speed: 90 MB/s maximum (Burst)				
	◉Write speed: 30 MB/s Minimum				
	◉Built-in Write Protect Switch				
	◉Durability: Shockproof, Temperature Extremes, waterproof, X-ray Proof				
	◉Opening Temperature: -25 to 85C				
95	HDMI to 3G SDI Converter	pcs	4	**9,000.00**	**36,000.00**
	◉Iinput HDMI (x1)				
	◉Output SDI (x2) - switchable between SD, HD & 3Gbs SDI				
	◉Audio Analog: (2) channels of professional balanced analog with standard 1/4 jack connections				
	◉Digital: channels of professional balanced digital with standard 1/4 jack connections, AES/EBU standard				
	◉Standards: 625/25 PAL, 525/29.97 NTSC, 1080PsF23.98, 1080PsF25, 1080i50,				
	1080i59.94, 1080i60, 720p50, 720p59.94 and 720p60				
	◉SDI Video Sampling: 4:2:2				
	◉SDI Video Rates: SDI video connections are switchable between standards definition and high definition				
	◉SDI Color Space: YUV				
	◉SDI Audio Sampling: Television standard simple rate of 48kHz and 24 bit				
	◉SDI Auto Switching: Automatically selects between SD SDI, HD-SDI and 3 Gb/sSDI				
	◉Analog Color precision: 4:2:2				
	◉Power: 12VDC				
96	**UTP Cable (300 meters)**	box	1	**7,000.00**	**7,000.00**
	◉UTP Cable cat6				
	◉Cat 6 Cable UTP Unshielded AWG24				
	◉Gray Data LAN Cable				
	◉1000 feet 305m 1000ft.				
97	**Micro Converter Bi-Directional SDI/HDMI**	pc	1	**5,000.00**	**5,000.00**
	◉SDI Video Input				
	◉1xSD, HD or 3G-SDL				

	◙SDI Video Outputs				
	◙1xSDI loop out				
	◙HDMI Outputs				
	◙HDMI Type A out				
	◙Multi Rate Support				
	◙Auto detection or SD or HD				
	◙SDI Video Standards				
	◙1xSD, H525i159 94 NTSC, 625i50 PAL				
	◙HD Video Standard				
	◙720p50, 720p59.94, 720p60				
	◙SDI Compliance				
	◙SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE372M, SMPTE424M, SMPTE 425M				
	◙SDI Video Rates				
	◙SDI Video connections are switchable between standard definition, high definition level A and Level B 3G-SDI.				
98	**Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)**	pc	1	**2,000.00**	**2,000.00**
	◙Antivirus Software keeps your PC/Laptop/Mobile device safe from Trojans, viruses, spyware, rootkits, and more, with state-of-the-art anti-malware protection				
	◙Detects, quarantines, and blocks viruses and malware to prevent damage to your PC/Laptop				
	◙Keep zero-day threats and botnets at bay - McAfee Active Protection and Global Threat Intelligence technology have you covered				
	◙Block inappropriate sites				
	◙Two-Way Firewall system monitors and stops traffic in and out of your PC				
	◙Keep sensitive files private by storing them on your PC with 128-bit encryption				
	◙Eliminate the hassle of passwords with the password manager app				
99	**Netbook Laptop, Intel Celeron**	unit	1	**15,000.00**	**15,000.00**
	◙Intel® Celeron® Processor N3350 , up to 2.4GHz				
	◙Intel HD Graphics 500 GPU				
	◙14.1 inch HD resolution				
	◙4GB RAM for Advanced Multitasking				
	◙128GB EMMC Storage Capacity				
	◙38000mWh Large Battery				
	◙Mini-HDMI Output & Two standard USB 3.0 Slot				
100	**Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)**	unit	2	**11,000.00**	**22,000.00**
	◙Tank Ink System				
	◙Printer Type: Print, Scan and Copy				
	◙Scanner Type: Flatbed colour image scanner				
	◙Sensor Type: CIS				

	◉Optical Resolution: 600 x 1200 dpi				
	◉Copy Speed: Maximum Copies from Standalone: 20 copies				
	◉Maximum Copy Size: A4, Letter				
	◉ISO 29183, A4 Simplex Flatbed (Black / Colour):				
	◉Up to 7.0 ipm / 1.7 ipm				
	◉Max Copy Resolution: 300 x 300 dpi				
	◉Paper Handling:				
	◀Up to 20 sheets-Premium Glossy Photo Paper 10 sheets-Envelope, 30 sheets-Postcard				
	◀Output Capacity: Up to 30 sheets, A4 plain paper				
	◀20 sheets, Premium Glossy Photo Paper				
	◀Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24")				
	◀Paper Size: Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm), 5 x 7", 4 x 6", Envelopes: #10, DL, C6				
	◀Print Margin: 0 mm top, left, right, bottom via custom settings in printer driver				
	◀Nozzle Configuration: 180 x 1 nozzles Black, 59 x 1 nozzles per colour (Cyan, Magenta, Yellow)				
	◀Print Direction: Bi-directional printing				
	◀Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology)5760 x 1440 dpi (with Variable-Sized Droplet Technology)				
	◀Minimum Ink Droplet Size: 3 pl				
	◀Printer Language: ESC / P-R				
101	**Toner Cartridge, HP 85A | CE285A, Black**	boxes	2	**3,500.00**	**7,000.00**
	◉HP 85A (CE285A) toner cartridges work with: HP LaserJet Pro M1212nf, M1217nfw, P1102w, P1109w				
	◉HP 85A toner cartridge yield (approx.): 1,600 pages. Operating temperature range is 10 to 32.5°C				
102	**Headset, Over Ear, wired**	sets	3	**750.00**	**2,250.00**
	◉Wearing Type: Over-ear				
	◉Microphone: Yes				
	◉Volume Control: Yes				
	◉One Key Mute Button: Yes				
	◉Microphone: Omnidirectional				
	◉Plug Type: 3.5mm				
	◉Speaker Diameter: 50mm				
	◉Receive Sensitivity: 101dB				
	◉Impedance: 32Ω				
	◉Frequency Response: 20-20kHz				
103	Printer Ink HP LaserJet Pro M225dw 83A	pcs	2	4,300.00	8,600.00
104	**Laptop, 14" (i7)**	unit	1	**60,000.00**	**60,000.00**

	◉Processor: Intel Core i7-1065G7 or higher (1.3/3.9GHz, 8MB Cache)				
	◉Graphics: NVIDIA GeForce MX250 at least 2GB GDDR5				
	◉Memory: at least 8GB DDR4-2666				
	◉Storage: at least 256GB SSD M.2 + 1TB HDD				
	◉Display: 14" FHD (1920x1080) TN 220nits Anti-glare				
	◉Touchscreen: None				
	◉Optical: None				
	◉Media Reader: 4-in-1 Card Reader				
	◉Ethernet: None				
	◉WLAN + Bluetooth				
	◉Camera: at least 720p				
	◉Microphone: at least 2x, Array				
	◉Operating System: Windows 10 Home				
	◉Bundled Software: Microsoft Office Perpetual License				
	◉FREE: Backpack				
	◉1 year Warranty				
105	**Ribbon Cartridge EPSON S015639**	pieces	3	**165.00**	**495.00**
	◉Ribbon Cartridge S015639 for EPSON LQ-310 printer				
106	Computer ribbon, EPSON SO15531/15086, Genuine	pieces	6	**765.00**	**4,590.00**
107	HP Ink Cartridge 678 Black	piece	20	**450.00**	**9,000.00**
108	HP Ink Cartridge 678 Tricolor	piece	50	**450.00**	**22,500.00**
109	Anti-virus Software, at least 5 users, 1 year from installation	pc	2	**5,000.00**	**10,000.00**
110	Automatic Voltage Regulatory (AVR), 1500W, heavy duty	unit	2	**5,000.00**	**10,000.00**
111	**UI-5000-8500 Universal Interface**	unit	3	**36,955.00**	**110,865.00**
	◉USB 2.0 computer connection				
	◉External trigger input and output for synchronizing multiple 850s or other equipment				
	◉44-pin expansion port for personalized expansion of applications				
	◉Analog inputs are protected up to ±300 V. Outputs and power supplies are protected from short circuits.				
	◉Protected by PASCO's five year warranty				
112	Toner, NPG 67, Black for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	6	**14,000.00**	**84,000.00**
113	Toner, NPG 67, Cyan for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	5	**17,000.00**	**85,000.00**
114	Toner, NPG 67, Magenta for Canon C3320 Image Runner advance (photocopier, printer/scanner)machine	pcs	5	**17,000.00**	**85,000.00**
115	**Computer Desktop (assebled)**	set	1	**40,000.00**	**40,000.00**
	◉Processor: Core i5-at least 10th generation, 3.4GHz				

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

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

	◙Processor: Quad Core					
	◙Accessibility: Voice guide(AU English)/ Enlarge/ High contrast/ Learn TV Remote(AU English)					
	◙Digital Clean View, Auto Channel Search					
	◙Auto Power Off, Caption (Subtitle), Connect Share™ (HDD), ConnectShare™ (USB 2.0)					
	◙Embeded POP, EPG, Extended PVR, USB HID Support					
	◙Ultra Clean View, Eco Sensor					
	◙Power Supply: AC100-240V 50/60Hz					
	◙Power Consumption (Max): 265W					
	◙Package Size (WxHxD): 1617 x 980 x 255 mm					
	◙Set Size with Stand (WxHxD): 1460.3 x 907.2 x 369.1 mm					
	◙Set Size without Stand (WxHxD): 1460.3 x 845.8 x 131.1 mm					
	◙Package Weight: 36.70 kg					
	◙Set Weight with Stand: 28.30 kg					
	◙Set Weight without Stand: 26.1 kg					
	◙Accessory: Remote Controller, Batteries, Mini Wall Mount Support					
	◙Vesa Wall Mount Support, User Manual, E-Manual, Power Cable, Slim Gender Cable					
123	**LCD Projector**	pcs	5	**23,000.00**	**115,000.00**	
	◙RGB Liquid crystal shutter					
	◙LCD Panel: 0.55 inch with MLA (D10)					
	◙Image: Colour Light Output					
	◙3,600 Lumen - 2,235 Lumen (economy) iin accordance with IDMS15.4					
	◙White Light Ouput: 3m600 Lumen-2,235 Lumen (economy) in accordance with ISO 21118:2012					
	◙Resolution: XGA, 1024 x 768, 4:3					
	◙Aspect Ratio: 4:3; Contrast Ratio: 15,000: 1					
	◙Light source: Lamp; Lamp: UHE, 210 W, 6,000 h durability, 10,000 h durability (economy mode)					
	◙Keystone Correction: Auto vertical: +30o, Manual horizontal + 30o					
124	**Photocopying Machine**	pcs	8	**160,000.00**	**1,280,000.00**	
	◙Print Type:Colour					
	◙User Interface: 10.1 inch TFT LCD WSVGA Colour Touchpanel					
	◙Product Environment: Small to Medium Office/Workgroup					
	◙Original Paper Size: A3					
	◙Printed Paper Size: SRA3					
	◙Standard Paper Capacity: 1,200					
	◙Maximum Paper Capacity: 2,300					
	◙Paper Weight: 300gsm					
	◙Output Capacity: 250 (Max with finisher: 3,450)					
	◙Warm-up Time: Quick start 4 seconds - from Power on: <10 seconds					

	◙Resolution (Equivalent): 600 x 600, 1200 x 1200 (Half-speed)				
	◙Memory: 3GB RAM				
	◙HDD Capacity: Standard: 320 GB Optional: 1 TB				
	◙Dimension (W x D x H): 565 x 722 x 887 mm				
	◙Weight (kg): 80.6				
125	**Laptop**	pcs	1	**60,000.00**	**60,000.00**
	◙OS: Licensed Windows 10				
	◙Processor: Intel Corei7 IM 55000 10th gen CPU				
	◙RAM: 8 GB				
	◙System: 64 bit OS x 64 based processor				
	◙Wifi				
	◙bluetooth				
	◙Camera				
	◙SSD: 512GB				
	◙CPU 2.46Hz or Higher				
126	**Laptop**	pcs	5	**45,000.00**	**225,000.00**
	◙IntelCorei5-1035G1 Processor 1.0 GHz				
	◙6M Cache, up to 3.60 GHz or higher				
	◙OS: Licensed Windows 10 Home; Memory: 4GB Onboard memory				
	◙1 x SO-DIMM socket; Display: 14.0" (16.9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC				
	◙Video Processor: NVIDIA GeForce MX330, with 2GB GDDR5 VRAM; Storage: 512GB Pcle Gen3x2 SSD				
127	**Desktop Computer set with UPS and Printer**	pcs	15	**45,000.00**	**675,000.00**
	◙CPU - Intel Core i5 8700 H110M FCLGA1151 or higher				
	◙RAM - 8GB; HDD - 1TB; SSD - 512GB; with DVDRW + SATA Optical Drive				
	◙Monitor - 24" led monitor				
	◙Mouse & Keyboard - USB connectivity				
	◙PSU - 700w; Licensed Windows 10 Operating System				
	◙UPS 800VA; Tower ATX CPU Casing				
	◙UPS - Back-Up 625, APC battery back-up/surge protection				
	◙Printer - 3n1 (can print vellum board type of paper, scan & copy)				
	◙Maximum paper size - 8.5" x 44"Ink tank printer system (color black, magenta, cyan, yellow)				
	◙USB connectivity				
128	**DOCUMENT CAMERA**	unit	1	**34,500.00**	**34,500.00**
	• Pixels: 2MP (1920 x 1080 pixels)				
	• Camera Sensor: 1/2.7 inch CMOS Sensor				
	• Resolution: Up to Full HD (1080p)				
	• Zoom: 10x Digital Zoom, 12x Optical Zoom				

	• Key Benefit: Desktop document camera with optical zoom					
	• Effective Pixels: Effective Pixels					
	• Camera Sensor: 1/2.7 inch CMOS Sensor					
	• Frame-Per-Second (FPS): 30					
	• Output Resolution: Up to Full HD (1080p)					
	• Zoom: 10x Digital, 12x Optical					
	• Built-in Microphone: Yes					
	• AV Recording: Yes					
129	**LCD PROJECTOR, XGA (1024 X 768)**	unit	1	**27,000.00**	**27,000.00**
	Projection System: 3LCD Technology, RGB liquid crystal shutter					
	Projection Method: Front/rear/ceiling mount					
	Pixel Number: at least 786,432 dots (1024 x 768) x 3					
	Color Brightness: 3.600 lumen- 2.235 lumen (economy) In accordance with IDMS15.4					
	Aspect ratio: 4:3					
	Lamp Life: ECO Mode up to 5000 hrs					
	Normal Mode up to 4000 hrs					
	Projection Distance Wide/Tele: 1,8 m - 2,17 m (60 inch screen)					
	Keystone Correction: Manual					
	USB Plug 'n Play:Compatible w/ PC and MAC computers					
	Conrast Ratio: 15.000 : 1					
	Color Reproduction: 16.77 million colors					
				Total ABC (this project):	**6,129,030.00**

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

2. The *Visayas State University – Main Campus* now invites bids for the above Procurement Project. Delivery of the Goods is required by *forty-five (45) calendar days upon receipt of Notice to Proceed (NTP)*. Bidders should have completed, within *two (2) years* from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).

3. Bidding will be conducted through open competitive bidding procedures using a non-discretionary "*pass/fail*" criterion as specified in the 2016 revised Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184.

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

4. Prospective Bidders may obtain further information from *Visayas State University* and inspect the Bidding Documents at the address given below during *Mondays - Fridays (8:00 AM-5:00 PM)*.

5. A complete set of Bidding Documents may be acquired by interested Bidders on *03 March – 23 March 2021 until 8:30 AM* from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of *Ten Thousand Pesos (PhP 10,000.00)*. The Procuring Entity shall allow the bidder to present its proof of payment for the fees in person, by facsimile, or through electronic means.

6. The *Visayas State University – Main Campus* will hold a Pre-Bid Conference on *March 10, 2021; 9:00 AM* at *the Cooperative Building, VSU Market, Visca, Baybay City, Leyte* and/or through video conferencing or webcasting *via Google Meet,* which shall be open to prospective bidders.

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

7. Bids must be duly received by the BAC Secretariat through (i) manual submission at the office address indicated below, (ii) online or electronic submission as indicated below, or (iii) both on or before *23 March 2021 until 8:30 AM*. Late bids shall not be accepted.

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

9. Bid opening shall be on *23 March 2021; 9:00 AM* at the *Cooperative Building, VSU Market, Visca, Baybay City, Leyte* and/or via *Google Meet.* Bids will be opened in the presence of the bidders' representatives who choose to attend the activity.

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

10. For bidders who opt to submit their bids electronically, a hardcopy (original) of the bid must be sent to the BAC through couriers. A proof (e.g. courier receipt, etc.) that a hardcopy of the bid is on transit must be presented upon submission of the electronic bid.

11. The *Visayas State University* reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.

12. For further information, please refer to:

    Ms. Jessamine C. Ecleo (BAC Secretariat)
    Office of the Head for Procurement,
    VSU-Main, Visca, Baybay City, Leyte
    Mobile: 053 565 0600 local 1093 or 0917 6341 474

Email: jecleo@vsu.edu.ph

or

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

13.   You may visit the following websites:

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

March 2, 2021

<u>DILBERTO O. FERRAREN</u>
Chairperson, VSU BAC

Section II. Instructions to Bidders

1. Scope of Bid

The Procuring Entity, *Visayas State University,* wishes to receive Bids for the *Supply and Delivery of I.T. Equipment and Supplies*, with identification number *GOODS-21-11*.

The Procurement Project (referred to herein as "Project") is composed of *129 items*, the details of which are described in Section VII (Technical Specifications).

2. Funding Information

2.1. The GOP through the source of funding as indicated below for *2020* in the amount of *Six Million One Hundred Twenty-Nine Thousand Thirty Pesos (PhP 6,129,030.00).*

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

3. Bidding Requirements

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

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

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

4. Corrupt, Fraudulent, Collusive, and Coercive Practices

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

5. Eligible Bidders

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

5.2. Foreign ownership limited to those allowed under the rules may participate in this Project.

5.3. Pursuant to Section 23.4.1.3 of the 2016 revised IRR of RA No.9184, the Bidder shall have an SLCC that is at least one (1) contract similar to the Project the value of which, adjusted to current prices using the PSA's CPI, must be at least equivalent to:

Bidders should comply with the following requirements:

    i.   Completed at least two (2) similar contracts, the aggregate amount of which should be equivalent to at least *fifty percent (50%)* of the ABC for this Project; and

    ii.   The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

5.4. The Bidders shall comply with the eligibility criteria under Section 23.4.1 of the 2016 IRR of RA No. 9184.

6. Origin of Goods

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

7. Subcontracts

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

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

8. Pre-Bid Conference

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

9. Clarification and Amendment of Bidding Documents

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

10. Documents comprising the Bid: Eligibility and Technical Components

10.1. The first envelope shall contain the eligibility and technical documents of the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.

10.2. The Bidder's SLCC as indicated in **ITB** Clause 5.3 should have been completed within **two (*2 years)** prior to the deadline for the submission and receipt of bids.

10.3. If the eligibility requirements or statements, the bids, and all other documents for submission to the BAC are in foreign language other than English, it must be accompanied by a translation in English, which shall be authenticated by the appropriate Philippine foreign service establishment, post, or the equivalent office having jurisdiction over the foreign bidder's affairs in the Philippines. Similar to the required authentication above, for Contracting Parties to the Apostille Convention, only the translated documents shall be authenticated through an apostille pursuant to GPPB Resolution No. 13-2019 dated 23 May 2019. The English translation shall govern, for purposes of interpretation of the bid.

11. Documents comprising the Bid: Financial Component

11.1. The second bid envelope shall contain the financial documents for the Bid as specified in **Section VIII (Checklist of Technical and Financial Documents)**.

11.2. If the Bidder claims preference as a Domestic Bidder or Domestic Entity, a certification issued by DTI shall be provided by the Bidder in accordance with Section 43.1.3 of the 2016 revised IRR of RA No. 9184.

11.3. Any bid exceeding the ABC indicated in paragraph 1 of the **IB** shall not be accepted.

11.4. For Foreign-funded Procurement, a ceiling may be applied to bid prices provided the conditions are met under Section 31.2 of the 2016 revised IRR of RA No. 9184.

12. Bid Prices

12.1. Prices indicated on the Price Schedule shall be entered separately in the following manner:

   a. For Goods offered from within the Procuring Entity's country:

      i. The price of the Goods quoted EXW (ex-works, ex-factory, ex-warehouse, ex-showroom, or off-the-shelf, as applicable);

      ii. The cost of all customs duties and sales and other taxes already paid or payable;

       iii.   The cost of transportation, insurance, and other costs incidental to delivery of the Goods to their final destination; and

       iv.   The price of other (incidental) services, if any, listed in e.

    b.   For Goods offered from abroad:

       i.   Unless otherwise stated in the **BDS**, the price of the Goods shall be quoted delivered duty paid (DDP) with the place of destination in the Philippines as specified in the **BDS**. In quoting the price, the Bidder shall be free to use transportation through carriers registered in any eligible country. Similarly, the Bidder may obtain insurance services from any eligible source country.

       ii.   The price of other (incidental) services, if any, as listed in **Section VII (Technical Specifications).**

13. Bid and Payment Currencies

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

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

14. Bid Security

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

14.2. The Bid and bid security shall be valid until *July 8, 2021*. Any Bid not accompanied by an acceptable bid security shall be rejected by the Procuring Entity as non-responsive.

15. Sealing and Marking of Bids

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

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

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

16. Deadline for Submission of Bids

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

17. Opening and Preliminary Examination of Bids

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

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

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

18. Domestic Preference

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

19. Detailed Evaluation and Comparison of Bids

19.1. The Procuring BAC shall immediately conduct a detailed evaluation of all Bids rated "*passed*," using non-discretionary pass/fail criteria. The BAC shall consider the conditions in the evaluation of Bids under Section 32.2 of the 2016 revised IRR of RA No. 9184.

19.2. If the Project allows partial bids, bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, as the case maybe. In this case, the Bid Security as required by **ITB** Clause 15 shall be submitted for each lot or item separately.

19.3. The descriptions of the lots or items shall be indicated in **Section VII (Technical Specifications)**, although the ABCs of these lots or items are indicated in the **BDS** for purposes of the NFCC computation pursuant to Section 23.4.2.6 of the 2016 revised IRR of RA No. 9184. The NFCC must be sufficient for the total of the ABCs for all the lots or items participated in by the prospective Bidder.

19.4. The Project shall be awarded as follows: One Project having several items, which shall be awarded as separate contracts per item.

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

20. Post-Qualification

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

21. Signing of the Contract

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

Section III. Bid Data Sheet

Bid Data Sheet

ITB Clause	
5.3	For this purpose, contracts similar to the Project shall be: a. *I.T. Equipment and Supplies* b. completed within two (2) years prior to the deadline for the submission and receipt of bids.
7.1	Subcontracting is not allowed.
12	The price of the Goods shall be quoted *DDP VSU Main, Visca, Baybay City, Leyte* or the applicable International Commercial Terms (INCOTERMS) for this Project.
14.1	The bid security shall be in the form of a Bid Securing Declaration, or any of the following forms and amounts: a. The amount of not less than *One Hundred Twenty-Two Thousand Five Hundred Eighty and 60/100 Pesos (PhP 122,580.60) or two percent (2%) of ABC*, if bid security is in cash, cashier's/manager's check, bank draft/guarantee or irrevocable letter of credit; or b. The amount of not less than *Three Hundred Six Thousand Four Hundred Fifty-One and 50/100 Pesos (PhP 306,451.50) or five percent (5%) of ABC* if bid security is in Surety Bond.
19.3	(see table below)

Item #	Item Description	Unit	Qty	Unit Price	Total Price
1	**AVR, 500W (IC Controlled)**	unit	26	**500.00**	**13,000.00**
2	**Computer Monitor 24"**	set	6	**10,000.00**	**60,000.00**
3	**Desktop Computer (i7)**	unit	3	**45,000.00**	**135,000.00**
4	**External Hard Disk Drive (Portable, 2TB), USB 3.0**	unit	5	**5,500.00**	**27,500.00**
5	**Printer, Laser Jet**	unit	3	**7,500.00**	**22,500.00**
6	**Laptop 15.6", AMD Ryzen 3750**	unit	1	**72,000.00**	**72,000.00**
7	Ink cartridge, photocopier "EPSON WF-C869R 02 Yellow, T9734, 192.4ML"	pc	3	**9,490.00**	**28,470.00**
8	Ink cartridge, photocopier "EPSON WF-C869R 02 Cyan, T9732, 192.4ML"	pc	3	**9,490.00**	**28,470.00**
9	Ink cartridge, photocopier "EPSON WF-C869R 02 - black"	pcs	5	**7,000.00**	**35,000.00**
10	Ink cartridge, photocopier "EPSON WF-C869R 02 Magenta, T9733, 192.4ML"	pc	3	**9,490.00**	**28,470.00**
11	**Computer Keyboard USB**	pcs	15	**400.00**	**6,000.00**
12	**All-in-One Ink Tank Printer Wi-Fi Duplex with ADF**	unit	2	**20,000.00**	**40,000.00**
13	Epson L6160 Black 001	btls	15	**400.00**	**6,000.00**
14	Epson L6160 Cyan 001	btls	8	**350.00**	**2,800.00**
15	Epson L6160 Magenta 001	btls	12	**350.00**	**4,200.00**

16	Epson L6160 Yellow 001	btls	7	**350.00**	**2,450.00**
17	External Hard Disk Drive (Portable, 1TB), USB 3.0	unit	12	**3,800.00**	**45,600.00**
18	**HDMI to HDMI cable**	piece	10	**500.00**	**5,000.00**
19	UPS, at least 500 w	piece	7	**2,550.00**	**17,850.00**
20	**Mouse, Wired, Optical, USB**	pieces	22	**210.00**	**4,620.00**
21	Flash Drive, at least 32GB USB 3.0	piece	24	**800.00**	**19,200.00**
22	Ink, Epson, genuine, (Y) T664, 70 ml	pieces	128	**350.00**	**44,800.00**
23	Ink, Epson, genuine, (BK) T664, 70 ml	pieces	237	**350.00**	**82,950.00**
24	Ink, Epson, genuine (M) T664, 70 ml	pieces	125	**350.00**	**43,750.00**
25	Ink, Epson 003,Genuine Black 65mL	btl	67	**350.00**	**23,450.00**
26	Ink, EPSON 003,Genuine Cyan 65mL	btl	43	**350.00**	**15,050.00**
27	Ink, EPSON 003,Genuine Magenta 65mL	btl	43	**350.00**	**15,050.00**
28	Ink, EPSON 003,Genuine Yellow 65mL	btl	43	**350.00**	**15,050.00**
29	Ink cartridge Cannon Pixma 810 black	pc	22	**800.00**	**17,600.00**
30	Ink Cartridge Canon Pixma 811 Color	pcs	22	**1,100.00**	**24,200.00**
31	DVD+RW 8x 4.7Gb w/indiv case	pieces	10	**50.00**	**500.00**
32	UPS, at least 800 watts, 4 hours charging time	unit	2	**5,000.00**	**10,000.00**
33	Ink, Epson, genuine (C) T664, 70 ml	pieces	130	**350.00**	**45,500.00**
34	Toner, Cartridge, HP Laser Jet CB435A, Black	piece	4	**3,500.00**	**14,000.00**
35	Ink, Brother BTD60BK, Black	btls	20	**400.00**	**8,000.00**
36	Ink, Brother BT5000C Cyan	btls	15	**350.00**	**5,250.00**
37	Ink, Brother BT5000M Magenta	btls	15	**350.00**	**5,250.00**
38	**Laptop 14" (i5)**	unit	3	**44,000.00**	**132,000.00**
39	Ink, Brother BT5000Y Yellow	btls	15	**350.00**	**5,250.00**
40	**Desktop Computer (w/o Monitor)**	unit	16	**24,000.00**	**384,000.00**
41	**UPS, 1000 VA**	unit	9	**3,000.00**	**27,000.00**
42	**Arduino Laboratory Kit**	sets	25	**2,500.00**	**62,500.00**
43	**Unifi 500W PoE+ Switch**	unit	4	**35,000.00**	**140,000.00**
44	**Video Card, RTX 2060**	unit	1	**28,000.00**	**28,000.00**
45	**Mouse, Wired Optical, PS/2**	pc	17	**210.00**	**3,570.00**
46	**Printer, computer, continuous ink system, 4-in-1 (Print, Scan, Xerox copy, Fax)**		4	**13,500.00**	**54,000.00**
47	**Power supply, 700 watts**	piece	1	**2,700.00**	**2,700.00**
48	**Desktop Computer (i5)**	unit	2	**45,000.00**	**90,000.00**
49	Toner, NPG 67, Yellow for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	1	**17,000.00**	**17,000.00**
50	**Computer Server (File Server/ Network Attached Storage)**	unit	1	**150,000.00**	**150,000.00**
51	**Computer Printer, 3-in-1/Multifunction Colored-Ink Tank**	unit	14	**11,000.00**	**154,000.00**
52	**Electric Paper Shredder**	unit	2	**40,000.00**	**80,000.00**
53	**Wireless Optical Mouse**	pcs	6	**1,000.00**	**6,000.00**
54	Ink continuous, refill, black (Brother DCP T10)	btls	6	**400.00**	**2,400.00**
55	Ink continuous, refill, black (Brother DCP T300/MFC 220)	btls	8	**400.00**	**3,200.00**

	56	Ink continuous, refill, cyan (Brother DCP T300/MFC 220)	btls	6	400.00	2,400.00
	57	Ink continuous, refill, cyan (Brother DCp T310)	btls	6	400.00	2,400.00
	58	Ink continuous, refill, magenta (Brother DCP T310)	btls	6	400.00	2,400.00
	59	Ink continuous, refill, yellow (Brother DCP T300/MFC 220)	btls	6	400.00	2,400.00
	60	Ink continuous, refill, magenta (Brother DCP T300/MFC 220)	btls	6	400.00	2,400.00
	61	**Robotic Vacuum Cleaner**	unit	1	16,000.00	16,000.00
	62	**ATX Power Supply (500W)**	pieces	8	980.00	7,840.00
	63	**Projector Screen**	pc	1	15,000.00	15,000.00
	64	**External Solid State Drive, (Portable, 500GB), USB 3.1**	pc	1	6,000.00	6,000.00
	65	Ink, Catridge, LC 539XL-BK, DCP-J100	box	3	450.00	1,350.00
	66	Ink, Cartridge, LC535XL-Yellow, DCP-J100	box	3	400.00	1,200.00
	67	Ink, Cartridge, LC535XL - Magenta, DCP-J10	box	3	400.00	1,200.00
	68	Ink, Cartridge, LC535XL - Cyan, DCP-J100	box	3	400.00	1,200.00
	69	Ink, Brother LC-539XL, Black	pc	5	470.00	2,350.00
	70	Ink, Brother LC-539XL, Cyan	pc	5	470.00	2,350.00
	71	Ink, Brother LC-539XL, Magenta	pc	5	470.00	2,350.00
	72	Ink, Brother LC-539XL, Yellow	pc	5	470.00	2,350.00
	73	Ink, Refill, UNIKIT for CIS black, yellow, cyan, magenta	set	1	790.00	790.00
	74	Computer Webcam	pieces	10	1,000.00	10,000.00
	75	EPSON L220 Ink Cartridge Black	btls	20	300.00	6,000.00
	76	**Speaker, for PC, 2.1 (Speaker with Subwoofer)**	pc	5	1,270.00	6,350.00
	77	EPSON L220 Ink Cartridge Cyan	btls	11	300.00	3,300.00
	78	EPSON L220 Ink Cartridge Magenta	btls	11	300.00	3,300.00
	79	EPSON L220 Ink Cartridge Yellow	btls	11	300.00	3,300.00
	80	**M.2 S lid State Drive (for Laptop)**	unit	1	4,000.00	4,000.00
	81	**Desktop Microphone**	pieces	6	650.00	3,900.00
	82	**Web Camera for PC**	unit	6	2,500.00	15,000.00
	83	**Surge supressor 6 outlets**	unit	2	200.00	400.00
	84	**External Hard Disk Drive, (Portable 1TB), USB 3.0**	piece	3	3,500.00	10,500.00
	85	**HP Laser Jet CP1025 color maging Drum**	pc	2	6,000.00	12,000.00
	86	HD Webcam	pc	1	5,200.00	5,200.00
	87	**Digital Multimeter**	pc	1	7,000.00	7,000.00
	88	**HDMI Splitter (8 Port)**	unit	3	7,000.00	21,000.00
	89	**Memory Card Holder**	pc	1	200.00	200.00
	90	**Memory Card Reader**	pc	1	650.00	650 00
	91	**SD Card, MicroSD, 32GB**	pc	1	500.00	500.00
	92	SD Card, 64GB	pcs	1	800.00	800.00
	93	**HDMI Extender**	pc	1	4,000.00	4,000.00
	94	**SD Card, 128 GB**	pcs	2	1,700.00	3,400.00

		Item	Unit	Qty	Unit Price	Total
	95	HDMI to 3G SDI Converter	pcs	4	9,000.00	36,000.00
	96	**UTP Cable (300 meters)**	box	1	7,000.00	7,000.00
	97	**Micro Converter Bi-Directional SDI/HDMI**	pc	1	5,000.00	5,000.00
	98	**Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)**	pc	1	2,000.00	2,000.00
	99	**Netbook Laptop, Intel Celeron**	unit	1	15,000.00	15,000.00
	100	**Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)**	unit	2	11,000.00	22,000.00
	101	**Toner Cartridge, HP 85A	CE285A, Black**	boxes	2	3,500.00	7,000.00
	102	**Headset, Over Ear, wired**	sets	3	750.00	2,250.00
	103	Printer Ink HP LaserJet Pro M225dw 83A	pcs	2	4,300.00	8,600.00
	104	**Laptop, 14" (i7)**	unit	1	60,000.00	60,000.00
	105	**Ribbon Cartridge EPSON S015639**	pieces	3	165.00	495.00
	106	Computer ribbon, EPSON SO15531/15086, Genuine	pieces	6	765.00	4,590.00
	107	HP Ink Cartridge 678 Black	piece	20	450.00	9,000.00
	108	HP Ink Cartridge 678 Tricolor	piece	50	450.00	22,500.00
	109	Anti-virus Software, at least 5 users, 1 year from installation	pc	2	5,000.00	10,000.00
	110	Automatic Voltage Regulatory (AVR), 1500W, heavy duty	unit	2	5,000.00	10,000.00
	111	**UI-5000-8500 Universal Interface**	unit	3	36,955.00	110,865.00
	112	Toner, NPG 67, Black for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	6	14,000.00	84,000.00
	113	Toner, NPG 67, Cyan for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	5	17,000.00	85,000.00
	114	Toner, NPG 67, Magenta for Canon C3320 Image Runner advance (photocopier, printer/scanner)machine	pcs	5	17,000.00	85,000.00
	115	**Computer Desktop (assembled)**	set	1	40,000.00	40,000.00
	116	Computer Keyboard, USB port	Piece	1	500.00	500.00
	117	Computer Monitor at least 19"	Piece	1	5,000.00	5,000.00
	118	Computer Mouse, USB port	Pieces	2	400.00	800.00
	119	**Computer Printer Continous, USB Port, w/ free Ink**	Unit	1	7,000.00	7,000.00
	120	**Laptop**	Unit	1	60,000.00	60,000.00
	121	**UPS 500 watts, Universal**	Unit	1	4,000.00	4,000.00
	122	**Smart Television**	unit	5	100,000.00	500,000.00
	123	**LCD Projector**	pcs	5	23,000.00	115,000.00
	124	**Photocopying Machine**	pcs	8	160,000.00	1,280,000.00
	125	**Laptop**	pcs	1	60,000.00	60,000.00
	126	**Laptop**	pcs	5	45,000.00	225,000.00
	127	**Desktop Computer set with UPS and Printer**	pcs	15	45,000.00	675,000.00
	128	**DOCUMENT CAMERA**	unit	1	34,500.00	34,500.00
	129	**LCD PROJECTOR, XGA (1024 X 768)**	unit	1	27,000.00	27,000.00
					Total ABC (this project):	**6,129,030.00**

20.2	In case the PhilGEPS Platinum Certificate of Registration is not available during bid submission, it shall be submitted as a post-qualification requirement, in accordance with Section 34.2 of the 2016 Revised IRR of R.A. 9184.
21.2	*Not Applicable.*

Section IV. General Conditions of Contract

1. Scope of Contract

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

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

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

2. Advance Payment and Terms of Payment

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

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

3. Performance Security

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

4. Inspection and Tests

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

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

5.   Warranty

6.1.   In order to assure that manufacturing defects shall be corrected by the Supplier, a warranty shall be required from the Supplier as provided under Section 62.1 of the 2016 revised IRR of RA No. 9184.

6.2.   The Procuring Entity shall promptly notify the Supplier in writing of any claims arising under this warranty. Upon receipt of such notice, the Supplier shall, repair or replace the defective Goods or parts thereof without cost to the Procuring Entity, pursuant to the Generic Procurement Manual.

6.   Liability of the Supplier

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

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

Section V. Special Conditions of Contract

Special Conditions of Contract

GCC Clause	

1	**Delivery and Documents –**
	
	For purposes of the Contract, "EXW," "FOB," "FCA," "CIF," "CIP," "DDP" and other trade terms used to describe the obligations of the parties shall have the meanings assigned to them by the current edition of INCOTERMS published by the International Chamber of Commerce, Paris. The Delivery terms of this Contract shall be as follows:
	
	The delivery terms applicable to this Contract are delivered *VSU Main Campus, Visca, Baybay City, Leyte*. Risk and title will pass from the Supplier to the Procuring Entity upon receipt and final acceptance of the Goods at their final destination.
	
	Delivery of the Goods shall be made by the Supplier in accordance with the terms specified in Section VI (Schedule of Requirements).
	
	For purposes of this Clause the Procuring Entity's Representative at the Project Site is*:*
	
	    Ms. Alicia M. Flores
	    Head, Supply and Property Management Office,
	    VSU-Main, Visca, Baybay City, Leyte
	    Contact #: 053 565 0600 local 1082 / 0917 6341 430
	
	Incidental Services –
	
	The Supplier is required to provide all of the following services, including additional services, if any, specified in Section VI. Schedule of Requirements:
	    a. performance or supervision of on-site assembly and/or start-up of the supplied Goods;
	    b. furnishing of tools required for assembly and/or maintenance of the supplied Goods;
	    c. furnishing of a detailed operations and maintenance manual for each appropriate unit of the supplied Goods;
	    d. performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
	    e. training of the Procuring Entity's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods.

	The Contract price for the Goods shall include the prices charged by the Supplier for incidental services and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

Spare Parts –

The Supplier is required to provide all of the following materials, notifications, and information pertaining to spare parts manufactured or distributed by the Supplier:

a. such spare parts as the Procuring Entity may elect to purchase from the Supplier, provided that this election shall not relieve the Supplier of any warranty obligations under this Contract; and

b. in the event of termination of production of the spare parts:

i. advance notification to the Procuring Entity of the pending termination, in sufficient time to permit the Procuring Entity to procure needed requirements; and

ii. following such termination, furnishing at no cost to the Procuring Entity, the blueprints, drawings, and specifications of the spare parts, if requested.

The spare parts and other components required are listed in **Section VI (Schedule of Requirements)** and the cost thereof is included in the contract price.

The Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spare parts or components for the Goods for a period of 3 years.

Spare parts or components shall be supplied as promptly as possible, but in any case, within 1 month of placing the order.

Packaging –

The Supplier shall provide such packaging of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in this Contract. The packaging shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit, and open storage. Packaging case size and weights shall take into consideration, where appropriate, the remoteness of the Goods' final destination and the absence of heavy handling facilities at all points in transit.

The packaging, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract, including additional requirements, if any, specified below, and in any subsequent instructions ordered by the Procuring Entity.

The outer packaging must be clearly marked on at least four (4) sides as follows:

Name of the Procuring Entity
Name of the Supplier

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

2.2	Payment shall be done upon full delivery of the items and compliance of all terms specified in the Purchase Order/Contract.
4	The inspections and tests that will be conducted will be specified by the appropriate technical team of VSU Main to confirm conformity to the contract specifications at no extra cost to VSU.

Section VI. Schedule of Requirements

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

Item #	Item Description	Unit	Qty	Delivered, Weeks/Months
1	**AVR, 500W (IC Controlled)**	unit	26	All Items Should Be Delivered Within **45 Calendar Days** From Receipt Of Notice To Proceed And Purchase Order
2	**Computer Monitor 24"**	set	6	
3	**Desktop Computer (i7)**	unit	3	
4	**External Hard Disk Drive (Portable, 2TB), USB 3.0**	unit	5	
5	**Printer, Laser Jet**	unit	3	
6	**Laptop 15.6", AMD Ryzen 3750**	unit	1	
7	Ink cartridge, photocopier "EPSON WF-C869R 02 Yellow, T9734, 192.4ML"	pc	3	
8	Ink cartridge, photocopier "EPSON WF-C869R 02 Cyan, T9732, 192.4ML"	pc	3	
9	Ink cartridge, photocopier "EPSON WF-C869R 02 - black"	pcs	5	
10	Ink cartridge, photocopier "EPSON WF-C869R 02 Magenta, T9733, 192.4ML"	pc	3	
11	**Computer Keyboard USB**	pcs	15	
12	**All-in-One Ink Tank Printer Wi-Fi Duplex with ADF**	unit	2	
13	Epson L6160 Black 001	btls	15	
14	Epson L6160 Cyan 001	btls	8	
15	Epson L6160 Magenta 001	btls	12	
16	Epson L6160 Yellow 001	btls	7	
17	External Hard Disk Drive (Portable, 1TB), USB 3.0	unit	12	
18	**HDMI to HDMI cable**	piece	10	
19	UPS, at least 500 w	piece	7	
20	**Mouse, Wired, Optical, USB**	pieces	22	
21	Flash Drive, at least 32GB USB 3.0	piece	24	
22	Ink, Epson, genuine, (Y) T664, 70 ml	pieces	128	
23	Ink, Epson, genuine, (BK) T664, 70 ml	pieces	237	
24	Ink, Epson, genuine (M) T664, 70 ml	pieces	125	
25	Ink, Epson 003,Genuine Black 65mL	btl	67	
26	Ink, EPSON 003,Genuine Cyan 65mL	btl	43	
27	Ink, EPSON 003,Genuine Magenta 65mL	btl	43	
28	Ink, EPSON 003,Genuine Yellow 65mL	btl	43	
29	Ink cartridge Cannon Pixma 810 black	pc	22	
30	Ink Cartridge Canon Pixma 811 Color	pcs	22	
31	DVD+RW 8x 4.7Gb w/indiv case	pieces	10	
32	UPS, at least 800 watts, 4 hours charging time	unit	2	
33	Ink, Epson, genuine (C) T664, 70 ml	pieces	130	
34	Toner, Cartridge, HP Laser Jet CB435A, Black	piece	4	

35	Ink, Brother BTD60BK, Black	btls	20	
36	Ink, Brother BT5000C Cyan	btls	15	
37	Ink, Brother BT5000M Magenta	btls	15	
38	**Laptop 14" (i5)**	unit	3	
39	Ink, Brother BT5000Y Yellow	btls	15	
40	**Desktop Computer (w/o Monitor)**	unit	16	
41	**UPS, 1000 VA**	unit	9	
42	**Arduino Laboratory Kit**	sets	25	
43	**Unifi 500W PoE+ Switch**	unit	4	
44	**Video Card, RTX 2060**	unit	1	
45	**Mouse, Wired Optical, PS/2**	pc	17	
46	**Printer, computer, continuous ink system, 4-in-1 (Print, Scan, Xerox copy, Fax)**		4	
47	**Power supply, 700 watts**	piece	1	
48	**Desktop Computer (i5)**	unit	2	
49	Toner, NPG 67, Yellow for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	1	
50	**Computer Server (File Server/ Network Attached Storage)**	unit	1	
51	**Computer Printer, 3-in-1/Multifunction Colored-Ink Tank**	unit	14	
52	**Electric Paper Shredder**	unit	2	
53	**Wireless Optical Mouse**	pcs	6	
54	Ink continuous, refill, black (Brother DCP T10)	btls	6	
55	Ink continuous, refill, black (Brother DCP T300/MFC 220)	btls	8	
56	Ink continuous, refill, cyan (Brother DCP T300/MFC 220)	btls	6	
57	Ink continuous, refill, cyan (Brother DCp T310)	btls	6	
58	Ink continuous, refill, magenta (Brother DCP T310)	btls	6	
59	Ink continuous, refill, yellow (Brother DCP T300/MFC 220)	btls	6	
60	Ink continuous, refill, magenta (Brother DCP T300/MFC 220)	btls	6	
61	**Robotic Vacuum Cleaner**	unit	1	
62	**ATX Power Supply (500W)**	pieces	8	
63	**Projector Screen**	pc	1	
64	**External Solid State Drive, (Portable, 500GB), USB 3.1**	pc	1	
65	Ink, Catridge, LC 539XL-BK, DCP-J100	box	3	
66	Ink, Cartridge, LC535XL-Yellow, DCP-J100	box	3	
67	Ink, Cartridge, LC535XL - Magenta, DCP-J10	box	3	
68	Ink, Cartridge, LC535XL - Cyan, DCP-J100	box	3	
69	Ink, Brother LC-539XL, Black	pc	5	
70	Ink, Brother LC-539XL, Cyan	pc	5	

71	Ink, Brother LC-539XL, Magenta	pc	5
72	Ink, Brother LC-539XL, Yellow	pc	5
73	Ink, Refill, UNIKIT for CIS black, yellow, cyan, magenta	set	1
74	Computer Webcam	pieces	10
75	EPSON L220 Ink Cartridge Black	btls	20
76	**Speaker, for PC, 2.1 (Speaker with Subwoofer)**	pc	5
77	EPSON L220 Ink Cartridge Cyan	btls	11
78	EPSON L220 Ink Cartridge Magenta	btls	11
79	EPSON L220 Ink Cartridge Yellow	btls	11
80	**M.2 S lid State Drive (for Laptop)**	unit	1
81	**Desktop Microphone**	pieces	6
82	**Web Camera for PC**	unit	6
83	**Surge supressor 6 outlets**	unit	2
84	**External Hard Disk Drive, (Portable 1TB), USB 3.0**	piece	3
85	**HP Laser Jet CP1025 color maging Drum**	pc	2
86	HD Webcam	pc	1
87	**Digital Multimeter**	pc	1
88	**HDMI Splitter (8 Port)**	unit	3
89	**Memory Card Holder**	pc	1
90	**Memory Card Reader**	pc	1
91	**SD Card, MicroSD, 32GB**	pc	1
92	SD Card, 64GB	pcs	1
93	**HDMI Extender**	pc	1
94	**SD Card, 128 GB**	pcs	2
95	HDMI to 3G SDI Converter	pcs	4
96	**UTP Cable (300 meters)**	box	1
97	**Micro Converter Bi-Directional SDI/HDMI**	pc	1
98	**Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)**	pc	1
99	**Netbook Laptop, Intel Celeron**	unit	1
100	**Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)**	unit	2
101	**Toner Cartridge, HP 85A	CE285A, Black**	boxes	2
102	**Headset, Over Ear, wired**	sets	3
103	Printer Ink HP LaserJet Pro M225dw 83A	pcs	2
104	**Laptop, 14" (i7)**	unit	1
105	**Ribbon Cartridge EPSON S015639**	pieces	3
106	Computer ribbon, EPSON SO15531/15086, Genuine	pieces	6
107	HP Ink Cartridge 678 Black	piece	20
108	HP Ink Cartridge 678 Tricolor	piece	50
109	Anti-virus Software, at least 5 users, 1 year from installation	pc	2
110	Automatic Voltage Regulatory (AVR),	unit	2

	1500W, heavy duty		
111	**UI-5000-8500 Universal Interface**	unit	3
112	Toner, NPG 67, Black for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	6
113	Toner, NPG 67, Cyan for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine	pcs	5
114	Toner, NPG 67, Magenta for Canon C3320 Image Runner advance (photocopier, printer/scanner)machine	pcs	5
115	**Computer Desktop (assembled)**	set	1
116	Computer Keyboard, USB port	Piece	1
117	Computer Monitor at least 19"	Piece	1
118	Computer Mouse, USB port	Pieces	2
119	**Computer Printer Continous, USB Port, w/ free Ink**	Unit	1
120	**Laptop**	Unit	1
121	**UPS 500 watts, Universal**	Unit	1
122	**Smart Television**	unit	5
123	**LCD Projector**	pcs	5
124	**Photocopying Machine**	pcs	8
125	**Laptop**	pcs	1
126	**Laptop**	pcs	5
127	**Desktop Computer set with UPS and Printer**	pcs	15
128	**DOCUMENT CAMERA**	unit	1
129	**LCD PROJECTOR, XGA (1024 X 768)**	unit	1

Section VII. Technical Specifications

Technical Specifications

Item #	Item Description and Specifications	STATEMENT OF COMPLIANCE
1	**AVR, 500W (IC Controlled)**	*[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]*
	◙Power Output: 500 W	
	◙Power Factor Correction (PFC): Active PFC with Value of 0.98	
	◙Fan Type: 1 x 120 mm Smart and Silent Fan Control 22 dBA	
	◙Safety Standards: FCC, CB, CCC, TUV, CE, C-tick, EMI, EMC, S-Intertek, CPT-AB15	
2	**Computer Monitor 24"**	
	◙Panel Size: Wide Screen 23.8"(60.5cm) 16:9	
	◙Color Saturation : 72%(NTSC)	
	◙Panel Type : In-Plane Switching	
	◙True Resolution : 1920x1080	
	◙Brightness(Max) : 250 cd/m	
	◙Contrast Ratio (Max) : 1000:1	
	◙Response Time : 5ms (Gray to Gray)	
	◙Display Colors : 16.7M	
	◙Flicker free	
	Voltage input: 110-240V	
3	**Desktop Computer (i7)**	
	◙Processor: Intel® Core™ i7 8th Generation or higher	
	◙Chipset: Intel®H310	
	◙Graphics: Intel® HD Graphics Discrete graphics	
	◙Memory: at least 4 GB Dual Channel, DDR4 at 2666MHz expandable to 32 GB	
	◙Expansion Slots: 1 x M.2, 2 x PCI-e x 1, 1 x PCI-e x 16	
	◙SATA: at least 4 x SATA 6Gb/s *1	
	◙Storage: at least 250 GB M.2 SSD	
	◙Operating System: Genuine Windows 10 Home	
	◙Power Supply: at least 500 W Peak with ATX case	
	◙Monitor: 24" LED IPS Full HD	
	◙Keyboard and Mouse	
4	**External Hard Disk Drive (Portable, 2TB), USB 3.0**	
	◙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	

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

	◙Auto-duplex printing Fax and ADF capability
	◙Ethernet & Wi-Fi Direct
	◙Borderless Printing up to A4 size
	◙Spill-free ink refilling
13	Epson L6160 Black 001
14	Epson L6160 Cyan 001
15	Epson L6160 Magenta 001
16	Epson L6160 Yellow 001
17	External Hard Disk Drive (Portable, 1TB), USB 3.0
18	**HDMI to HDMI cable**
	◙Chord 1.8 meter long;
19	UPS, at least 500 w
20	**Mouse, Wired, Optical, USB**
	◙USB Port Connectivity
	◙Sensor: Optical
	◙DPI: 1600
	◙Work method: Wired
	◙Buttons: Left button, middle button, right button
	◙Scroll wheel direction: Two way
	◙Design highlights: Easy installation. 1600 DPI high-definition tracking engine. Anti-slip scroll wheel. Full-size, ambidextrous design
21	Flash Drive, at least 32GB USB 3.0
22	Ink, Epson, genuine, (Y) T664, 70 ml
23	Ink, Epson, genuine, (BK) T664, 70 ml
24	Ink, Epson, genuine (M) T664, 70 ml
25	Ink, Epson 003,Genuine Black 65mL
26	Ink, EPSON 003,Genuine Cyan 65mL
27	Ink, EPSON 003,Genuine Magenta 65mL
28	Ink, EPSON 003,Genuine Yellow 65mL
29	Ink cartridge Cannon Pixma 810 black
30	Ink Cartridge Canon Pixma 811 Color
31	DVD+RW 8x 4.7Gb w/indiv case
32	UPS, at least 800 watts, 4 hours charging time
33	Ink, Epson, genuine (C) T664, 70 ml
34	Toner, Cartridge, HP Laser Jet CB435A, Black
35	Ink, Brother BTD60BK, Black
36	Ink, Brother BT5000C Cyan
37	Ink, Brother BT5000M Magenta
38	**Laptop 14" (i5)**
	◙Processor: Intel Core i5-1035G1 Processor 1.0 GHz 6M Cache, up to 3.60 GHz or higher
	◙Operating system: Licensed Windows 10 Home
	◙Memory: 4GB Onboard memory, 1 x SO-DIMM socket (for expansion)
	◙Display: 14.0" (16:9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45%

	NTSC	
	◉Video Processor: NVIDIA GeForce MX330 , with 2GB GDDR5 VRAM	
	◉Storage: 512GB PCIe Gen3 x2 SSD	
39	Ink, Brother BT5000Y Yellow	
40	**Desktop Computer (w/o Monitor)**	
	◉Processor: Intel Core i3-9100F Processor (9M Cache, up to 4.10 GHz)	
	◉Motherboard Intel H310 Ultra Durable motherboard, Gaming LAN, Anti-Sulfur Resistor, LGA-1151	
	◉Memory: 8GB DDR4 2400 DIMM Desktop Memory	
	◉SSD: 240GB	
	◉Casing with Power Supply	
	◉perating System: Genuine Windows 10 Home (OEM)	
	◉w/ USB Keyboard and Mouse	
41	**UPS, 1000 VA**	
	◉1000VA/600W capacity	
	◉Frequency Range: 60 Hz	
	◉Freq. Range (Batt. Mode): 60 Hz ± 1 Hz	
	◉Transfer Time: Typical 4-8 ms	
	◉Waveform (Batt. Mode): Simulated Sine Wave	
	◉Back-up Runtime: 10-15 mins	
	◉Voltage: 220 VAC	
	◉Voltage Range: 162-270 VAC	
42	**Arduino Laboratory Kit**	
	◉1xUNO R3 Board based on Arduino®	
	◉1xUSB Cable	
	◉1x (16×2) LCD with I2C Adapter	
	◉1xRC522 Module	
	◉1xRFID Card	
	◉1xKey Chain	
	◉1xJoystick Module	
	◉1xKey Board	
	◉1xRTC Module	
	◉1xWater Level Sensor	
	◉1xDHT11 Humidity Sensor	
	◉1xRGB Module	
	◉1xULN2003 Motor Driver Module	
	◉1x28BYJ-48 Stepper Motor	
	◉1×1-Channel Relay Module	
	◉1xMB-102 Breadboard	
	◉65xJumper Wire	
	◉10xFemale-Male Jumper Cable	
	◉1xSound Sensor Module	
	◉1xRemote	

	◉1x10K Potentiometer	
	◉1×1 Digital Tube	
	◉1×4 Digital Tube	
	◉1xMatrix Tube	
	◉1xSG90 Micro Servo	
	◉2xBuzzer	
	◉2xBall Switches	
	◉3xPhotoresistance	
	◉5xTactile Switches with Caps	
	◉1x9V Battery Clip with DC Jack	
	◉15x5mm LED	
	◉30xResistance (220ohm, 1K ohm, 10K ohm)	
	◉1xFlame Sensor	
	◉1xIR Receiver Sensor	
	◉1x74HC595	
	◉1xLM35DZ	
43	**Unifi 500W PoE+ Switch**	
	◉24 ports PoE+ Switch 500W	
	◉Network Interfaces: (24) 10/100/1000 Mbps RJ45 Ethernet Ports (2) 1 Gbps SFP Ethernet Ports	
	◉Management Interface: (1) RJ45 Serial Port Out-of-Band, Ethernet In-Band	
	◉Total Non-Blocking Throughput : 26 Gbps	
	◉Switching Capacity: 52 Gbps	
	◉Forwarding Rate: 38.69 Mpps	
	◉MAC Address Table: 16384	
	◉Maximum Aggregations: 6	
	◉Monitoring Sessions 1	
	◉Maximum VLANs 255	
	◉Power Method 100-240VAC/50-60 Hz, Universal Input	
	◉Power Supply AC/DC, Internal, 500W DC	
	◉Max. Power Consumption: Including PoE Output: 500W Excluding PoE Output: 30W	
	◉ESD/EMP Protection Air: ± 24 kV, Contact: ± 24 kV	
	◉Shock and Vibration ETSI300-019-1.4 Standard	
	◉Operating Temperature -5 to 40° C (23 to 104° F)	
	◉Operating Humidity 5 to 95% Noncondensing	
	◉Certifications CE, FCC, IC	
	◉PoE Interfaces PoE+ IEEE 802.3af/at (Pins 1, 2+; 3, 6-) 24VDC Passive PoE (Pins 4, 5+; 7, 8-)	
	◉Max. PoE+ Wattage per Port by PSE 34.2W	
	◉Voltage Range 802.3at Mode 50–57V	
	◉Max. Passive PoE Wattage per Port 17W	
	◉24V Passive PoE Voltage Range 20-27V	
	◉Should be compatible with existing Unifi Controller	

	◙1 year warranty	
44	**Video Card, RTX 2060**	
	◙NVIDIA GEFORCE RTX 2060	
	◙Stream Processors (CUDA): 1920	
	◙RTX-OPS: 37T	
	◙Giga Rays/s: 5	
	◙Base Clock: 1620 MHz	
	◙Video Memory: 6GB DDR 6	
	◙Graphics Card Power (W): 160W	
45	**Mouse, Wired Optical, PS/2**	
	◙Ergonomic Design: Symmetric	
	◙Sensor : Optical	
	◙Type: Wired (PS2)	
	◙System Requirements: Windows XP / Vista / 7 / 8 / 8.1 / 10	
	◙2 buttons + scrolling wheel optical mouse	
	◙Works on most surfaces	
	◙Microsoft system compatible	
	◙Resolution: 1000 DPI	
46	**Printer, computer, continuous ink system, 4-in-1 (Print, Scan, Xerox copy, Fax)**	
	◙Print Method:On-demand ink jet (piezoelectric)	
	◙Minimum Ink Droplet Volume:3 pl	
	◙Print Direction:Bi-directional printing, Uni-directional printing	
	◙Nozzle Configuration:180 nozzles Black, 59 nozzles per colour (Cyan, Magenta, Yellow)	
	◙Maximum Resolution:5760 x 1440 dpi (with Variable-Sized Droplet Technology)	
	◙USB:USB 2.0	
47	**Power supply, 700 watts**	
	◙700 watts power rating	
	◙High efficiency with 80 PLUS certification	
	◙24/7 continuous power output with 40℃ operating temperature	
	◙Class-leading single +12V rail	
	◙Active PFC Circuitry	
	◙PCI-E 8pin and PCI-E 6pin connector support	
	◙Silent running 120mm fan with 18dBA	
48	**Desktop Computer (i5)**	
	◙Processor: Intel Core i5 9400F or higher	
	◙Motherboard: Intel H310 Chipset, Anti-Sulfur Resistors Design, Gaming LAN with Bandwidth Management	
	◙Memory: 16GB (2x8) DDR4 or higher	
	◙SSD: at least 500GB M.2,	
	◙Optical Drive: DVD-RW	
	◙Casing: W/ 700W PSU,	
	◙Monitor: AT LEAST 23" IPS FHD,	

	◙Operating System: Genuine Windows 10 Home (OEM)
	◙Keyboard and mouse combo
	◙500W IC controlled AVR
	with headset and webcam
49	Toner, NPG 67, Yellow for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine
50	**Computer Server (File Server/ Network Attached Storage)**
	◙CPU Model: Intel Atom C3538
	◙CPU Architecture: 64-bit
	◙CPU Frequency: 4-core 2.1 GHz
	◙Hardware Encryption Engine (AES-NI)
	◙System Memory: 16 GB DDR4 non-ECC UDIMM
	◙Memory Module Pre-installed: 16 GB (16GBx1)
	◙Total Memory Slots: 4
	◙Maximum Memory Capacity: 64 GB (16 GB x 4)
	◙Storage: Drive Bays (12)
	◙Maximum Drive Bays with Expansion Unit: 24
	◙Compatible Drive Type: 3.5" SATA HDD, 2.5" SATA HDD, 2.5" SATA SSD
	◙Maximum Internal Raw Capacity: 192 TB (16 TB drive x 12)
	◙Maximum Raw Capacity with Expansion Units: 384 TB (192 TB + 16 TB drive x 12)
	◙Maximum Single Volume Size: 108 TB
	◙Hot Swappable Drive
	◙External Ports: RJ-45 1GbE LAN Port
	◙4 (with Link Aggregation / Failover support)
	◙USB 3.0 Port: 2
	◙Expansion Port: 1
	◙PCIe: PCIe Expansion
	◙1 x Gen3 x8 slot (black, x4 link)
	◙Internal Drives: Btrfs - EXT4
	◙External Drives: EXT3 - FAT -NTFS -HFS+ - exFAT*
	◙Form Factor (RU): 2U
	◙Rack Installation Support: 4-post 19" rack
51	**Computer Printer, 3-in-1/Multifunction Colored-Ink Tank**
	◙Ultra-low-cost printing: Print up to 8,100 pages in black and 6,500 in colour
	◙Next generation ink filling system: Enjoy hassle and mess-free refills with the enhanced ink bottles
	◙3-in-1: Print, copy & scan and borderless photo printing
	◙Nozzle Configuration: 180 Nozzles Black, 59 Nozzles per Color

	◉Minimum Droplet Size: 3 pl, With Variable-Sized Droplet Technology	
	◉Ink Technology: Dye Ink	
	◉Printing Resolution: 5,760 x 1,440 DPI	
52	**Electric Paper Shredder**	
	◉16 sheets shredder Infrared automatic paper feeding	
	◉Shredding Capacity: <10 Sheets/Shred	
	◉Shredding Medium: Photo	
	◉Shredding Medium: Card	
	◉Shredding Medium: CD	
	◉Shredding Medium: Paper	
	◉Capacity: <50L	
	◉Power: Electricity	
	◉Shredder Type: Cross-Cut	
	◉Security grade: s4	
	◉Volume: 30L	
	◉Power: 400w	
53	**Wireless Optical Mouse**	
	◉Adjustable 500/1000 DPI high-definition tracking engine	
	◉Reliable 2.4GHz wireless connection, perfect for anti-jamming	
	◉Supports 4D scroll wheel and optical buttons No installation software or drivers required: plug and play	
	◉Powered by 2 x AA alkaline batteries, you can use this mouse with only one battery	
54	Ink continuous, refill, black (Brother DCP T310)	
55	Ink continuous, refill, black (Brother DCP T300/MFC 220)	
56	Ink continuous, refill, cyan (Brother DCP T300/MFC 220)	
57	Ink continuous, refill, cyan (Brother DCp T310)	
58	Ink continuous, refill, magenta (Brother DCP T310)	
59	Ink continuous, refill, yellow (Brother DCP T300/MFC 220)	
60	Ink continuous, refill, magenta (Brother DCP T300/MFC 220)	
61	**Robotic Vacuum Cleaner**	
	◉Dynamic vision navigation	
	◉smart control water tank	
	◉2500Pa suction	
	◉App remote Control 100-240V	
	◉15 sensors	
	◉All-new vision navigation system fast capturing clean location and building a precise cleaning map path	
	◉Powerful chip: VSLAM algorithm + CortexTM-A7 quad-core professor	
	◉200ml automatic intelligent electric control water	

	tank	
	◙Up to 20mm Crossing obstacles	
	◙Cleaning in details: Floating Suction Nozzle + Strong Main Brush + High-precise Filtering	
62	**ATX Power Supply (500W)**	
	◙Single 6pin	
	◙24pin connector	
	◙Dual 4pin for board	
	◙4 sata supply	
	◙4 molex supply	
63	**Projector Screen**	
	◙manual pull-down with a speed control mechanism	
	◙Ceiling/Wall Mount	
	◙Aspect Ratio 16:9	
	◙Screen Height at least 2030mm	
	◙Screen at least Width 1145mm	
	◙Metal casing	
64	**External Solid State Drive, (Portable, 500GB), USB 3.1**	
	◙Storage Capacity: 500 GB or higher	
	◙Connection Interface: 1 x USB 3.1 (USB Type-C)	
	◙Maximum Read Speed: 550 MB/s	
	◙Type Solid-State Drive	
	◙Form Factor: 2.5"	
	◙Cooling System Passive	
	◙Environmental Resistance Shock	
	◙IP Rating IP55	
65	Ink, Catridge, LC 539XL-BK, DCP-J100	
66	Ink, Cartridge, LC535XL-Yellow, DCP-J100	
67	Ink, Cartridge, LC535XL - Magenta, DCP-J10	
68	Ink, Cartridge, LC535XL - Cyan, DCP-J100	
69	Ink, Brother LC-539XL, Black	
70	Ink, Brother LC-539XL, Cyan	
71	Ink, Brother LC-539XL, Magenta	
72	Ink, Brother LC-539XL, Yellow	
73	Ink, Refill, UNIKIT for CIS black, yellow, cyan, magenta	
74	Computer Webcam	
75	EPSON L220 Ink Cartridge Black	
76	**Speaker, for PC, 2.1 (Speaker with Subwoofer)**	
	◙Power Output : rms 4.5w×2 sw: 12w	
	◙Signal to noise ratio : 80dba	
	◙Frequency Response : 80hz~20khz (±6db)	
	◙R/l: 300±50mv sw: 100 ± 20mv	
	◙Aux/USB/SD card	
	◙Bass driver :4 inch	
	◙Treble driver :2 3/4 inch	

77	EPSON L220 Ink Cartridge Cyan	
78	EPSON L220 Ink Cartridge Magenta	
79	EPSON L220 Ink Cartridge Yellow	
80	**M.2 Solid State Drive (for Laptop)**	
	◉Capacity: 256GB	
	◉Form Factor: M.2 2280	
	◉NAND Flash: 3D NAND	
	◉Interface: PCIe Gen3x4	
	◉Performance (Max): Read 1800MB/s, Write 1200MB/s	
	◉Maximum 4k random read/write IOPS: up to 220K/200K	
81	**Desktop Microphone**	
	◉Compatible with: Desktop/Notebook/PC, Windows 7-10	
	◉Pickup: 6mm Condenser Mic	
	◉Microphone Directivity: Omnidirectional	
	◉2Sensitivity: -58db±3db	
	◉Signal-to-noise Ratio: ≤50dB	
	◉Cable Length: 2.5m	
	◉Type: 3.5mm Plug	
82	**Web Camera for PC**	
	◉Image sensor: 1 / 2.9	
	◉Lens: 3.6mm/75.7 °	
	◉Effective pixel: 1932 (H) * 1088 (V)	
	◉Horizontal resolution: 2MP	
	◉SNR: > 50dB	
	◉Video stream: H.264:1920 * 1080 / 1920 * 720 / 640 * 360 MJPEG: 1920 * 1080 / 1920 * 720 / 640 * 360	
	◉Video Frame rate: 25FPS / 30FPS	
	◉Electronic shutter: Auto	
	◉Protocol: UVC / UVA	
	◉Video output: USB video stream	
	◉Working voltage: DC5V / 160mA ± 6mA	
	◉Working environment: -20 ℃ to 60 ℃	
83	**Surge supressor 6 outlets**	
	◉Maximum capacity: 2500W	
	◉Voltage Surge Protector (protects appliances from voltage spikes)	
	◉6 Neon Switch	
	◉1 Circuit Breaker (protects appliance from overload or short circuit)	
	◉3 Two-Prong Outlets	
	◉3 Three-Prong Outlets w/ Grounding	
	◉90 degree outlet orientation	
	◉With line/noise filter	
	◉Royal Cord #16/3 (5.00 meters)	
	◉Metal casing	

84	**External Hard Disk Drive, (Portable 1TB), USB 3.0**	
	◙Hard Drive Type:2.5" HDD	
	◙USB Interface: USB 3.0	
	◙Capacity: 1TB	
85	**HP Laser Jet CP1025 color Imaging Drum**	
	◙HP126A Imaging Drum (14,000 pages) for HP CP1025,LaserJet Pro Color 100 M175a,LaserJet Pro M275nw Printers.	
86	HD Webcam	
87	**Digital Multimeter**	
	◙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.Ⅲ600V/CAT.Ⅱ1000VDCV: 400m/4/40/400/1000V	
	◙ACV: 4/40/400/1000V ±(1.2%+7)	
	◙DCA: 400µ/4000µ/40m/400m/4/10A	
	◙ACA: 400µ/4000µ/40m/400m/4/10A	
	◙Resistance: 400/4k/40k/400k/4M/40MΩ	
	◙Capacitance: 50n/500n/5µ/50µ/100µF	
	◙Frequency: 5/50/500/5k/50k/100kHz	
	◙Continuity: Buzzer sounds and LED lights up at between 0Ω and 85Ω（±45Ω）. Open voltage:Approx. 0.4V	
	◙Diode test: Open voltage:approx.1.5V	
	◙Battery Check: Approximate value（30Ω load）1.5V battery only	
	◙Display numeral display: 4000	
	◙Sampling rate: 3 times/sec.	
	◙Bandwidth: 40～400Hz（Sine wave）	

	◉Fuse: 0.5A/1000V 30kA Φ6.35×32mm 10A/1000V 30kA Φ10×38mm	
	◉Battery: R6Px2	
	◉Battery life: Approx.400h (manganese battery) at DCV range	
	◉Safety: IEC61010CAT.Ⅲ600V/CAT.Ⅱ1000V	
88	**HDMI Splitter (8 Port)**	
	◉Display Connections- 8	
	◉Device HDMI In: 1 x HDMI type A Female (Black)	
	◉Display HDMI Out: 8 x HDMI type A female (black)	
	◉Power 1 x DC jack	
	◉LEDs Power: Green	
	◉Input: 1 (green)	
	◉Output: (1-8): 1 (green)	
	◉HDMI Resolution: 4k x 2k, 1080p	
	◉Consumption: 5 VDC, 14.84W	
	◉Operating Temperature: 32 to 122F (0 to 50C)	
	◉Storage Temperature: -4 to 140F (-20 to 60 C)	
	◉Humidity: 0 to 80% RH (non-condensing)	
	◉Housing Metal	
89	**Memory Card Holder**	
	◉22 slots Memory Card storage	
	◉Carrying Pouch Holder Wallet Case Bag	
90	**Memory Card Reader**	
	◉Interface type: USB 3.0	
	◉Transfer rate:5Gbps	
	◉Apply to SD Card, Memory Stick Card, CF Card, MS Card	
91	**SD Card, MicroSD, 32GB**	
	◉32 GB High Speed 80MB/s	
	◉MicroSDHC UHS-I Class10 UI	
	◉A1 Performance memory card with SD Adapter	
92	SD Card, 64GB	
	◉64GB SD Card	
	◉SDHC UHS-1 Class 10 80MB/s	
93	**HDMI Extender**	
	◉120M HDMI Extender Cascade Connection	
	◉4k Via Cat5e/6	
	◉CAT6 RJ45 Ethernet Lan Network Card Cable	
	◉Transmitter Receiver TX RX W/ IR	
94	**SD Card, 128 GB**	
	◉Memory SD Card- 128 GB UHS-I SDXC	
	◉Card Type: SDXC	
	◉Storage Capacity: 128GB	
	◉Bus type: UHS-1	
	◉Data Transfer Read Speed: 170 MB/s Maximum (Burst)	

	◎Write speed: 90 MB/s maximum (Burst)	
	◎Write speed: 30 MB/s Minimum	
	◎Built-in Write Protect Switch	
	◎Durability: Shockproof, Temperature Extremes, waterproof, X-ray Proof	
	◎Opening Temperature: -25 to 85C	
95	HDMI to 3G SDI Converter	
	◎Iinput HDMI (x1)	
	◎Output SDI (x2) - switchable between SD, HD & 3Gbs SDI	
	◎Audio Analog: (2) channels of professional balanced analog with standard 1/4 jack connections	
	◎Digital: channels of professional balanced digital with standard 1/4 jack connections, AES/EBU standard	
	◎Standards: 625/25 PAL, 525/29.97 NTSC, 1080PsF23.98, 1080PsF25, 1080i50,	
	1080i59.94, 1080i60, 720p50, 720p59.94 and 720p60	
	◎SDI Video Sampling: 4:2:2	
	◎SDI Video Rates: SDI video connections are switchable between standards definition and high definition	
	◎SDI Color Space: YUV	
	◎SDI Audio Sampling: Television standard simple rate of 48kHz and 24 bit	
	◎SDI Auto Switching: Automatically selects between SD SDI, HD-SDI and 3 Gb/sSDI	
	◎Analog Color precision: 4:2:2	
	◎Power: 12VDC	
96	**UTP Cable (300 meters)**	
	◎UTP Cable cat6	
	◎Cat 6 Cable UTP Unshielded AWG24	
	◎Gray Data LAN Cable	
	◎1000 feet 305m 1000ft.	
97	**Micro Converter Bi-Directional SDI/HDMI**	
	◎SDI Video Input	
	◎1xSD, HD or 3G-SDL	
	◎SDI Video Outputs	
	◎1xSDI loop out	
	◎HDMI Outputs	
	◎HDMI Type A out	
	◎Multi Rate Support	
	◎Auto detection or SD or HD	
	◎SDI Video Standards	
	◎1xSD, H525i159 94 NTSC, 625i50 PAL	
	◎HD Video Standard	
	◎720p50, 720p59.94, 720p60	
	◎SDI Compliance	

	◙SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE372M, SMPTE424M, SMPTE 425M
	◙SDI Video Rates
	◙SDI Video connections are switchable between standard definition, high definition level A and Level B 3G-SDI.
98	**Antivirus Software 3 Device, 1+1 Year Licence include VPN (enrolled auto-renewal)**
	◙Antivirus Software keeps your PC/Laptop/Mobile device safe from Trojans, viruses, spyware, rootkits, and more, with state-of-the-art anti-malware protection
	◙Detects, quarantines, and blocks viruses and malware to prevent damage to your PC/Laptop
	◙Keep zero-day threats and botnets at bay - McAfee Active Protection and Global Threat Intelligence technology have you covered
	◙Block inappropriate sites
	◙Two-Way Firewall system monitors and stops traffic in and out of your PC
	◙Keep sensitive files private by storing them on your PC with 128-bit encryption
	◙Eliminate the hassle of passwords with the password manager app
99	**Netbook Laptop, Intel Celeron**
	◙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
100	**Printer, Tank Ink System, 3 in 1 (Print, Scan, Copy)**
	◙Tank Ink System
	◙Printer Type: Print, Scan and Copy
	◙Scanner Type: Flatbed colour image scanner
	◙Sensor Type: CIS
	◙Optical Resolution: 600 x 1200 dpi
	◙Copy Speed: Maximum Copies from Standalone: 20 copies
	◙Maximum Copy Size: A4, Letter
	◙ISO 29183, A4 Simplex Flatbed (Black / Colour):
	◙Up to 7.0 ipm / 1.7 ipm
	◙Max Copy Resolution: 300 x 300 dpi
	◙Paper Handling:
	◄Up to 20 sheets-Premium Glossy Photo Paper 10 sheets-Envelope, 30 sheets-Postcard
	◄Output Capacity: Up to 30 sheets, A4 plain paper

	◄20 sheets, Premium Glossy Photo Paper
	◄Maximum Paper Size: 215.9 x 1200 mm (8.5 x 47.24")
	◄Paper Size: Legal, Indian-Legal (215 x 345 mm), 8.5 x 13", Letter, A4, 16K (195 x 270 mm), B5, A5, B6, A6, Hagaki (100 x 148 mm), 5 x 7", 4 x 6", Envelopes: #10, DL, C6
	◄Print Margin: 0 mm top, left, right, bottom via custom settings in printer driver
	◄Nozzle Configuration: 180 x 1 nozzles Black, 59 x 1 nozzles per colour (Cyan, Magenta, Yellow)
	◄Print Direction: Bi-directional printing
	◄Maximum Print Resolution: 5760 x 1440 dpi (with Variable-Sized Droplet Technology)5760 x 1440 dpi (with Variable-Sized Droplet Technology)
	◄Minimum Ink Droplet Size: 3 pl
	◄Printer Language: ESC / P-R
101	**Toner Cartridge, HP 85A | CE285A, Black**
	◙HP 85A (CE285A) toner cartridges work with: HP LaserJet Pro M1212nf, M1217nfw, P1102w, P1109w
	◙HP 85A toner cartridge yield (approx.): 1,600 pages. Operating temperature range is 10 to 32.5°C
102	**Headset, Over Ear, wired**
	◙Wearing Type: Over-ear
	◙Microphone: Yes
	◙Volume Control: Yes
	◙One Key Mute Button: Yes
	◙Microphone: Omnidirectional
	◙Plug Type: 3.5mm
	◙Speaker Diameter: 50mm
	◙Receive Sensitivity: 101dB
	◙Impedance: 32Ω
	◙Frequency Response: 20-20kHz
103	Printer Ink HP LaserJet Pro M225dw 83A
104	**Laptop, 14" (i7)**
	◙Processor: Intel Core i7-1065G7 or higher (1.3/3.9GHz, 8MB Cache)
	◙Graphics: NVIDIA GeForce MX250 at least 2GB GDDR5
	◙Memory: at least 8GB DDR4-2666
	◙Storage: at least 256GB SSD M.2 + 1TB HDD
	◙Display: 14" FHD (1920x1080) TN 220nits Anti-glare
	◙Touchscreen: None
	◙Optical: None
	◙Media Reader: 4-in-1 Card Reader
	◙Ethernet: None
	◙WLAN + Bluetooth

	◙Camera: at least 720p
	◙Microphone: at least 2x, Array
	◙Operating System: Windows 10 Home
	◙Bundled Software: Microsoft Office Perpetual License
	◙FREE: Backpack
	◙1 year Warranty
105	**Ribbon Cartridge EPSON S015639**
	◙Ribbon Cartridge S015639 for EPSON LQ-310 printer
106	Computer ribbon, EPSON SO15531/15086, Genuine
107	HP Ink Cartridge 678 Black
108	HP Ink Cartridge 678 Tricolor
109	Anti-virus Software, at least 5 users, 1 year from installation
110	Automatic Voltage Regulatory (AVR), 1500W, heavy duty
111	**UI-5000-8500 Universal Interface**
	◙USB 2.0 computer connection
	◙External trigger input and output for synchronizing multiple 850s or other equipment
	◙44-pin expansion port for personalized expansion of applications
	◙Analog inputs are protected up to ±300 V. Outputs and power supplies are protected from short circuits.
	◙Protected by PASCO's five year warranty
112	Toner, NPG 67, Black for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine
113	Toner, NPG 67, Cyan for Canon C3320 Image Runner Advance (photocopier, printer/scanner) machine
114	Toner, NPG 67, Magenta for Canon C3320 Image Runner advance (photocopier, printer/scanner)machine
115	**Computer Desktop (assebled)**
	◙Processor: Core i5-at least 10th generation, 3.4GHz
	◙RAM DDR4: at least 8GB
	◙SSD: at least 500GB
	◙PORT: VGA, USB 2.0, Enthernet, Head set & mic, PS/2
	◙PCIE SLOT: Available
	◙PSU: 350W
	◙MONITOR SIZE: at least 20 Inches, Panel: LED
	◙ACC: VGA Cable & Power cord [ACC]
	◙With Keyboard, Mouse, Mouse Pad and Speaker WIFI receiver
	with licensed windows 10 home
	with at least 600VA UPS, 4 hours charging time
116	Computer Keyboard, USB port

117	Computer Monitor at least 19"
118	Computer Mouse, USB port
119	**Computer Printer Continous, USB Port, w/ free Ink**
	◉Max. Print Resolution: 720x720 dpi (w/ Variable-Sized Droplet Technology)
	◉Paper Size: Letter, A4, Legal
	◉Print Speed: 8.5cpm (black), 4 5cpm (colored)
	◉Double-Sided Printing: Manual
	◉USB: USB 2.0
	◉Operating System Compatability Edition: Window XP/XP Professional x64/
	◉Vista/7/8/8.1, Mac OS x 10.5.8, 10.6x, 10.7.x, 10.9.x
	◉Number of Paper Trays: 1
	◉Size: 18.1" x 8.5" x 5.1"
	◉Weight: 2.4kgs
	◉with Free Continue Inks
120	**Laptop**
	◉Processor Speed: 2.90 GHz (Base Frequency 2.30 GHZ)
	◉Graphic Processing Type: Integrated/On-Board Graphics
	◉Features: 10/100 LAN Card, Bluetooth, Built-in Microphone,
	◉Built-in Webcam, Multi-touch trackpad, Widescreen display, Wi-fi
	◉Hard Drive Capacity: 500GB
	◉GPU: Intel HD Graphics 5500
	◉Storage Type: SSD (Solid State Drive)
	◉RAM Size: 8 - 16 GB
	◉Processor: Interl Core i5 at least 10th Gen.
	◉SSD Capacity: 256 GB - 500 GB
	◉Screen Size: 14.1 in Windwos Package
	◉Maximum Resolution: 1366x768
	◉Operating System: Windows 10
	◉Connectivity: Gigabit Ethernet, HDMI, USB 2.0, USB 3.0, SC Card Slot,
	◉Micro SD slot, microSD Card slot
	◉Bundle Description: Bundle includes genuine Charger cable w/ new battery installed.
	◉Windows 10 License COA included
121	**UPS 500 watts, Universal**
	◉Description:, 600VA, 220V, AVR Floor, Universal Socket
122	**Smart Television**
	◉Screen Size: at least 65"
	◉Resolution: 3,840 × 2,160
	◉Screen Curvature: 4200R

◉Picture Engine: UHD Upscaling	
◉Motion Rate: 120	
◉PQI (Picture Quality Index): 1400	
◉HDR (High Dynamic Range)	
◉Dynamic Contrast Ratio: Mega Contrast	
◉Micro Dimming: UHD Dimming	
◉PurColor	
◉Auto Depth Enhancer	
◉Auto Motion Plus	
◉Film Mode	
◉Dolby Digital Plus, DTS Codec	
◉Sound Output (RMS): 20W	
◉Speaker Type: 2CH(Down Firing w/Bass Reflex)	
◉Multiroom Link	
◉Web Browser	
◉Smart View	
◉TV to Mobile – Mirroring	
◉Mobile to TV – Mirroring	
◉DLNA, 360 Video Player	
◉WiFi Direct	
◉Analog Clean View	
◉Digital Broadcasting: ISDB-T	
◉Analog Tuner: Yes	
◉HDMI: 3; USB: 2; Component In (Y/Pb/Pr): 1	
◉Composite In (AV): 1(Common Use for Component Y)	
◉Ethernet (LAN): Yes	
◉Digital Audio Out (Optical): 1	
◉RF In (Terrestrial / Cable input): 1/1(Common Use for Terrestrial)/0	
◉HDMI A / Return Ch. Support, HDMI Quick Switch, Wireless LAN Built-in, Anynet+ (HDMI-CEC)	
◉Slim Type: Slim	
◉Stand Type: V-Shape	
◉Instant On: Yes	
◉Processor: Quad Core	
◉Accessibility: Voice guide(AU English)/ Enlarge/ High contrast/ Learn TV Remote(AU English)	
◉Digital Clean View, Auto Channel Search	
◉Auto Power Off, Caption (Subtitle), Connect Share™ (HDD), ConnectShare™ (USB 2.0)	
◉Embeded POP, EPG, Extended PVR, USB HID Support	
◉Ultra Clean View, Eco Sensor	
◉Power Supply: AC100-240V 50/60Hz	
◉Power Consumption (Max): 265W	
◉Package Size (WxHxD): 1617 x 980 x 255 mm	
◉Set Size with Stand (WxHxD): 1460.3 x 907.2 x	

	369.1 mm	
	◙Set Size without Stand (WxHxD): 1460.3 x 845.8 x 131.1 mm	
	◙Package Weight: 36.70 kg	
	◙Set Weight with Stand: 28.30 kg	
	◙Set Weight without Stand: 26.1 kg	
	◙Accessory: Remote Controller, Batteries, Mini Wall Mount Support	
	◙Vesa Wall Mount Support, User Manual, E-Manual, Power Cable, Slim Gender Cable	
123	**LCD Projector**	
	◙RGB Liquid crystal shutter	
	◙LCD Panel: 0.55 inch with MLA (D10)	
	◙Image: Colour Light Output	
	◙3,600 Lumen - 2,235 Lumen (economy) iin accordance with IDMS15.4	
	◙White Light Ouput: 3m600 Lumen-2,235 Lumen (economy) in accordance with ISO 21118:2012	
	◙Resolution: XGA, 1024 x 768, 4:3	
	◙Aspect Ratio: 4:3; Contrast Ratio: 15,000: 1	
	◙Light source: Lamp; Lamp: UHE, 210 W, 6,000 h durability, 10,000 h durability (economy mode)	
	◙Keystone Correction: Auto vertical: +30o, Manual horizontal + 30o	
124	**Photocopying Machine**	
	◙Print Type:Colour	
	◙User Interface: 10.1 inch TFT LCD WSVGA Colour Touchpanel	
	◙Product Environment: Small to Medium Office/Workgroup	
	◙Original Paper Size: A3	
	◙Printed Paper Size: SRA3	
	◙Standard Paper Capacity: 1,200	
	◙Maximum Paper Capacity: 2,300	
	◙Paper Weight: 300gsm	
	◙Output Capacity: 250 (Max with finisher: 3,450)	
	◙Warm-up Time: Quick start 4 seconds - from Power on: <10 seconds	
	◙Resolution (Equivalent): 600 x 600, 1200 x 1200 (Half-speed)	
	◙Memory: 3GB RAM	
	◙HDD Capacity: Standard: 320 GB Optional: 1 TB	
	◙Dimension (W x D x H): 565 x 722 x 887 mm	
	◙Weight (kg): 80.6	
125	**Laptop**	
	◙OS: Licensed Windows 10	
	◙Processor: Intel Corei7 IM 55000 10th gen CPU	
	◙RAM: 8 GB	
	◙System: 64 bit OS x 64 based processor	

	◉**Wifi**	
	◉**bluetooth**	
	◉**Camera**	
	◉**SSD: 512GB**	
	◉CPU 2.46Hz or Higher	
126	**Laptop**	
	◉IntelCorei5-1035G1 Processor 1.0 GHz	
	◉6M Cache, up to 3.60 GHz or higher	
	◉OS: Licensed Windows 10 Home; Memory: 4GB Onboard memory	
	◉1 x SO-DIMM socket; Display: 14.0" (16.9) LED-backlit FHD (1920x1080) 60Hz Anti-Glare Panel with 45% NTSC	
	◉Video Processor: NVIDIA GeForce MX330, with 2GB GDDR5 VRAM; Storage: 512GB Pcle Gen3x2 SSD	
127	**Desktop Computer set with UPS and Printer**	
	◉CPU - Intel Core i5 8700 H110M FCLGA1151 or higher	
	◉RAM - 8GB; HDD - 1TB; SSD - 512GB; with DVDRW + SATA Optical Drive	
	◉Monitor - 24" led monitor	
	◉Mouse & Keyboard - USB connectivity	
	◉PSU - 700w; Licensed Windows 10 Operating System	
	◉UPS 800VA; Tower ATX CPU Casing	
	◉UPS - Back-Up 625, APC battery back-up/surge protection	
	◉Printer - 3n1 (can print vellum board type of paper, scan & copy)	
	◉Maximum paper size - 8.5" x 44"Ink tank printer system (color black, magenta, cyan, yellow)	
	◉USB connectivity	
128	**DOCUMENT CAMERA**	
	• Pixels: 2MP (1920 x 1080 pixels)	
	• Camera Sensor: 1/2.7 inch CMOS Sensor	
	• Resolution: Up to Full HD (1080p)	
	• Zoom: 10x Digital Zoom, 12x Optical Zoom	
	• Key Benefit: Desktop document camera with optical zoom	
	• Effective Pixels: Effective Pixels	
	• Camera Sensor: 1/2.7 inch CMOS Sensor	
	• Frame-Per-Second (FPS): 30	
	• Output Resolution: Up to Full HD (1080p)	
	• Zoom: 10x Digital, 12x Optical	
	• Built-in Microphone: Yes	
	• AV Recording: Yes	
129	**LCD PROJECTOR, XGA (1024 X 768)**	
	Projection System: 3LCD Technology, RGB liquid crystal shutter	
	Projection Method: Front/rear/ceiling mount	

	Pixel Number: at least 786,432 dots (1024 x 768) x 3		
	Color Brightness: 3.600 lumen- 2.235 lumen (economy) In accordance with IDMS15.4		
	Aspect ratio: 4:3		
	Lamp Life: ECO Mode up to 5000 hrs		
	Normal Mode up to 4000 hrs		
	Projection Distance Wide/Tele: 1,8 m - 2,17 m (60 inch screen)		
	Keystone Correction: Manual		
	USB Plug 'n Play:Compatible w/ PC and MAC computers		
	Conrast Ratio: 15.000 : 1		
	Color Reproduction: 16.77 million colors		

Section VIII. Checklist of Technical and Financial Documents

Checklist of Technical and Financial Documents

I. TECHNICAL COMPONENT ENVELOPE

Class "A" Documents

Legal Documents

- ☐ (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);

  or

- ☐ (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document,

  and

- ☐ (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;

  and

- ☐ (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).

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

Technical Documents

- ☐ (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid; **and**

- ☐ (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid in the amount of *at least 50% of the ABC or **at least Three Million Sixty-Four Thousand Five Hundred Fifteen Pesos (PhP 3,064,515.00)***;

  or

  Statement of at least two (2) similar completed contracts, the aggregate amount of which should be equivalent to *at least 50% of the ABC* or ***at least Three Million Sixty-Four Thousand Five Hundred Fifteen Pesos (PhP 3,064,515.00)*** and the largest of these similar contracts must be equivalent to at least half of the said aggregate amount or ***at least One Million Five Hundred Thirty-Two Thousand Two Hundred Fifty-Seven and 50/100 Pesos (PhP 1,532,257.50)***; **and**

- ☐ (h) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;

  or

  Original copy of Notarized Bid Securing Declaration; **and**

- ☐ (i) Conformity with the Technical Specifications; **and**
- ☐ (j) Production/delivery schedule; **and**
- ☐ (k) Manpower requirements; **and**
- ☐ (l) After-sales/parts, if applicable; **and**
- ☐ (m) Original duly signed Omnibus Sworn Statement (OSS);

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

Financial Documents
- (n) The Supplier's audited financial statements, showing, among others, the Supplier's total and current assets and liabilities, stamped "received" by the BIR or its duly accredited and authorized institutions, for the preceding calendar year which should not be earlier than two (2) years from the date of bid submission; **and**
- (o) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) – at least equal to ABC (**PhP 6,129,030.00**);
  or
  A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation (at least 10% of ABC or PhP 612,903.00).

II. FINANCIAL COMPONENT ENVELOPE

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

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

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

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

3. Create two (2) folders that are password-protected. The first folder should contain all requirements under Technical Component checklist as presented under Section VIII. The second folder should contain all requirements under Financial Component checklist.
4. Compress the two (2) folders and name as follows: a) first folder: **Technical Documents**, b) second folder: **Financial Documents**.
5. Email the 2 compressed folders to Ms. Jessamine C. Ecleo at **jecleo@vsu.edu.ph** before the deadline (March 23, 2021; 8:30 AM).