



PHILIPPINE ECONOMIC ZONE AUTHORITY

BIDS AND AWARDS COMMITTEE

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PEZA BIDS AND AWARDS COMMITTEE

SUPPLEMENTAL BID BULLETIN No. 2021-02

SUBJECT: Procurement of Laptops and Desktops for the PEZA Head Office (Re-Bidding)

PEZA HO-2021-02

This Supplemental Bid Bulletin No. 2021-02 is being issued to revise provisions/specifications in the Bidding Documents, to address queries/clarifications sent thru email and raised by bidders during the pre-bid conference conducted on 8 September 2021 for the aforementioned project:

A. Revisions to provisions/specifications in the Biddings Documents

- For complete information on the changes please refer to the **revised Technical Specification** uploaded at the PhilGEPS website and PEZA website.
- **Opening of Bids** and **Deadline of Submission of Bids** will be moved from September 20, 2021 to **September 27, 2021 at 10:00 AM** in compliance to RA 9184 (this shall apply to Section 1 Nos. 7, 9 and 10)
- The following are the revised provisions in the Bidding Documents:

FROM :	TO:
Section II. Instruction to Bidders Bid Data Sheet (p. 20 Phil. Bidding Documents), ITB Clause 5.3 a. Procurement of desktop and laptops	Section II. Instruction to Bidders Bid Data Sheet (p. 20 Phil. Bidding Documents), ITB Clause 5.3 a. Procurement of desktops and/or laptops

B. Response to queries/clarifications

ITEM DETAILS	QUERY	END-USER RESOLUTION
LOT 1 ITEM 1: Branded Executive Laptop		

Intel Core i5-10210U Processor (1.60GHz, up to 4.20GHz with Turbo Boost, 4 Cores, 6MB Cache)	Would you consider the latest 11th generation of processor that has same 2.4GHz Base frequency but lower on Turbo boost, same number of cores and thread but much higher on cache?	<i>Please refer to the revised Technical Specifications</i>
Display – 14.0” FHD(1920x1080) IPS Anti-Glare 250nits	14.0” HD (1366 x 768) 16:9 Anti-Glare 200nits	<i>Please refer to the revised Technical Specifications</i>
Storage Support 1 - 2.5" SATA	Can we omit this requirement since most of the latest model of laptops has only one storage slot? Moreover, there is no storage capacity indicated in the specifications.	<i>Please refer to the revised Technical Specifications</i>
Delivery Period 120 days	Requesting to extend the delivery lead time into 210 calendar days due to the ongoing COVID-19 pandemic. The delivery lead time are seriously affected by delays in production, logistics disruptions and raw material constraints.	Since no one provided certification for extension of delivery from manufacturer, we will stick with the 120 days delivery
Processor Intel Core i5-10210U Processor (1.60GHz, up to 4.20GHz with Turbo Boost, 4 Cores, 6MB Cache)	If you can revise the requirement to Intel Core i5-1135G7, latest processor of Intel	<i>Please refer to the revised Technical Specifications</i>
Wireless LAN Intel WiFi 6 AX201, 802.11 ax Dual Band Wifi, Bluetooth Version 5.0	If you can remove Intel WiFi and revise the requirement to 802.11ax dual band WiFi, Bluetooth version 5.0. WLAN is affected by the severe shortages globally.	<i>Please refer to the revised Technical Specifications</i>
I/O Ports 1 - USB-C 3.2 (support power	If you can remove VGA port since this is no longer available on	<i>Please refer to the revised Technical Specifications</i>

delivery and display) 2 - USB-A 3.2 Gen 1 1 - VGA Port 1 - HDMI Port 1 - 3.5 Combo Audio Jack 1 - Micro SD card reader 1 - Ethernet port(RJ 45)	the new laptop models because of the slimmer and lighter designs. VGA port, due to its thickness, cannot be configured on the new models anymore.	
Battery 48WHrs, 3S1P, 3-cell Li-ion	If you can relaxed the battery to 45Wh.	<i>Please refer to the revised Technical Specifications</i>
LOT 1 ITEM 2: Branded Laptop		
Storage Support 1 - 2.5" SATA	Can we omit this requirement since most of the latest model of laptops has only one storage slot? Moreover, there is no storage capacity indicated in the specifications.	<i>Please refer to the revised Technical Specifications</i>
I/O Ports 2 x USB 3.2 Gen 2 Type-A	Can we request to relax it to USB 3.2 Gen 1 Type-A?	<i>Please refer to the revised Technical Specifications</i>
I/O Ports 1 x Thunderbolt 4(supports display /power delivery)	Can you also consider USB Type-C® 10Gbps signaling rate (USB Power Delivery, DisplayPort™ 1.4)?	<i>Please refer to the revised Technical Specifications</i>
Keyboard - Backlit Chiclet Keyboard with Numkey, Spill-resistant	Can we make it manufacturer's standard to backlit keyboard with Numkey spill resistant as not all laptop has the same keyboard design?	<i>Please refer to the revised Technical Specifications</i>
Delivery Period 120 days	Requesting to extend the delivery lead time into 210 calendar days due to the ongoing COVID-19 pandemic. The delivery lead time are seriously affected by delays in production, logistics	Since no one provided certification for extension of delivery from manufacturer, we will stick with the 120 days delivery.

	disruptions and raw material constraints.	
Wireless LAN Intel WiFi 6 AX201, 802.11 ax Dual Band Wifi, Bluetooth Version 5.0	If you can Remove Intel WiFi and revise the requirement to 802.11ax dual band WiFi, Bluetooth version 5.0. WLAN is affected by the severe shortages globally.	<i>Please refer to the revised Technical Specifications</i>
I/O Ports 1 x HDMI 1.4 1 x VGA Port (D-Sub) 1 x 3.5mm Combo Audio Jack 1 x RJ45 LAN Jack for LAN insert(10/100/1000) 1x USB 2.0 Type-A 2 x USB 3.2 Gen 2 Type-A 1 - Micro SD card reader 1 x Thunderbolt 4(supports display / power delivery)	If you Remove VGA port since this is no longer available on the new laptop models because of the slimmer and lighter designs. VGA port, due to its thickness, cannot be configured on the new models anymore. If the quantity of USB Type-A ports to be relaxed to 2 instead of 3. Or maybe they can consider the 3 rd USB port to be Type-C.	<i>Please refer to the revised Technical Specifications</i> <i>Please refer to the revised Technical Specifications</i>
Battery 48WHrs, 3S1P, 3-cell Li-ion	If you can relaxed to 45Wh.	<i>Please refer to the revised Technical Specifications</i>
Not more than 3.81 lbs.	If you relaxed to 4.4lbs maximum.	<i>Please refer to the revised Technical Specifications.</i>
LOT 1 ITEM 3: All-in-One Branded Desktop Computer		
Audio Integrated High Definition Audio	External HD Audio	No. We will retain Integrated Audio
I/O Ports - 4 - USB 3.2 (rear) - 2 - USB 3.2 (side) - 1 - USB-C 3.2 (5V/3V Charging)	Back I/O Port 2x USB 2.0 Type-A 2x USB 3.2 Gen 1 Type-A Side I/O Port 1x USB 3.2 Gen 1 Type-A 1x USB 3.2 Gen 2 Type-C	<i>Please refer to the revised Technical Specifications</i>

<p>Military-Spec Test - MIL-STD-810H military test passed (Low Pressure [Altitude], High 41 Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)</p>	<p>Request to make it Optional or Omit</p>	<p><i>Please refer to the revised Technical Specifications</i></p>
<p>Chipset Intel H470 Chipset</p>	<p>Kindly check the chipset required. Maybe you are referring to Intel Q470 Chipset. There is no Intel H470 Chipset in the market.</p>	<p><i>Please refer to the revised Technical Specifications</i></p>
<p>Storage 512GB Solid State Drive, M.2 2242, PCIe-NVMe, TLC</p>	<p>Can you consider 512GB M.2 2280 PCIe NVMe Three Layer Cell SSD?</p>	<p><i>Please refer to the revised Technical Specifications</i></p>
<p>Storage Support 1x 2.5" HDD up to 2TB</p>	<p>Can we omit this requirement since most of the latest model of laptops has only one storage slot? Moreover, there is no storage capacity indicated in the specifications</p>	<p>No</p>
<p>Expansion Slot Two (2) M.2 Slots</p>	<p>Can we omit this requirement since there is no storage capacity indicated in the technical specifications?</p>	<p>No</p>
<p>Display 21.5" widescreen anti-glare, Borderless Design (none-touch) Native Resolution: 1920x1080</p>	<p>Can we omit borderless design as this terminology specific to a certain brand?</p>	<p><i>Please refer to the revised Technical Specifications</i></p>
<p>Speakers: Two (2) Stereo Speakers</p>	<p>Can we relax it to built-in speaker?</p>	<p><i>Please refer to the revised Technical Specifications</i></p>

<p>I/O Ports 2 - USB 3.2 (side)</p>	<p>Can we request to relax the USB 3.2 (side) to 1 port only.</p>	<p>No.</p>
<p>BIOS Security Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Smart USB protection (allows keyboard / mouse only, blocks all storage devices) Individual USB port disablement Self-healing BIOS</p>	<p>Can you consider equivalent of this security features as each brand uses different terminology?</p>	<p><i>Please refer to the revised Technical Specifications</i></p>
<p>Delivery Period 120 days</p>	<p>Requesting to extend the delivery lead time into 210 calendar days due to the ongoing COVID-19 pandemic. The delivery lead time are seriously affected by delays in production, logistics disruptions and raw material constraints.</p>	<p>Since no one provided certification for extension of delivery from manufacturer, we will stick with the 120 days delivery</p>
<p>Wireless LAN Intel WiFi 6 AX201, 802.11 ax Dual Band Wifi, Bluetooth Version 5.0</p>	<p>If you can Remove Intel WiFi and revise the requirement to 802.11ax dual band WiFi, Bluetooth version 5.0. WLAN is affected by the severe shortages globally.</p>	<p><i>Please refer to the revised Technical Specifications.</i></p>
<p>I/O Ports 1 x HDMI 1.4 1 x VGA Port (D-Sub) 1 x 3.5mm Combo Audio Jack 1 x RJ45 LAN Jack for LAN insert(10/100/1000) 1x USB 2.0 Type-A</p>	<p>If you Remove VGA port since this is no longer available on the new laptop models because of the slimmer and lighter designs. VGA port, due to its thickness, cannot</p>	<p><i>Please refer to the revised Technical Specifications.</i></p>

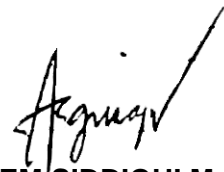
2 x USB 3.2 Gen 2 Type-A 1 - Micro SD card reader 1 x Thunderbolt 4(supports display / power delivery)	be configured on the new models anymore. If the quantity of USB Type-A ports to be relaxed to 2 instead of 3. Or maybe they can consider the 3 rd USB port to be Type-C.	<i>Please refer to the revised Technical Specifications.</i>
Battery 48WHrs, 3S1P, 3-cell Li-ion	If you can relax to 45Wh.	<i>Please refer to the revised Technical Specifications</i>
Not more than 3.81 lbs	If you relaxed to 4.4lbs maximum.	<i>Please refer to the revised Technical Specifications</i>

LOT 1 ITEM 4: All-in-One Branded Desktop Computer

Processor Intel® Core™ i5-1135G7 Processor 2.4 GHz (8M Cache, up to 4.2 GHz, 4 cores)	Can you consider Intel Core i5-10500 Processor with 3.1 GHz Base Frequency (12MB Cache, up to 4.5 GHz, 6 cores)?	<i>Please refer to the revised Technical Specifications.</i>
Chipset Intel HM570 Chipset	Do you also consider Intel Q470 Chipset? This is the integrated chipset for our offered processor. Kindly check the chipset required. Maybe you are referring to Intel Q470 Chipset. There is no Intel H470 Chipset in the market.	<i>Please refer to the revised Technical Specifications</i>
Expansion 1 x 2.5" SATA storage	Can we omit this requirement since most of the latest model of laptops has only one storage slot? Moreover, there is no storage capacity indicated in the specifications	No

Graphics NVIDIA GeForce MX330	Can we amend this to 2GB graphics card?	<i>Please refer to the revised Technical Specifications</i>
Speakers: Two (2) Stereo Speakers	Can we relax it to built-in speakers?	<i>Please refer to the revised Technical Specifications</i>
BIOS Security BIOS Booting User Password Protection; HDD User Password Protection and Security	Can you consider equivalent of this security features as each brand uses different terminology?	<i>Please refer to the revised Technical Specifications</i>
Delivery Period 120 days	Requesting to extend the delivery lead time into 210 calendar days due to the ongoing COVID-19 pandemic. The delivery lead time are seriously affected by delays in production, logistics disruptions and raw material constraints.	Since no one provided certification for extension of delivery from manufacturer, we will stick with the 120 days delivery

This BID Bulletin is issued this **17th** day of **September 2021** for the information and guidance of all concerned.



GM ALEEM SIDDIQUI M. GUIAPAL
Chairman
Bids and Awards Committee

Technical Specifications

Item	Specification	Statement of Compliance
1 Lot	LOT 1 ITEM 1: Branded Executive Laptop	<p><i>[Bidders must state here either “Comply” or “Not Comply” against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of “Comply” or “Not Comply” must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer’s un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]</i></p>
	<p>ISO Certification Manufactured by an ISO 9001 or ISO 9002 certified Personal Computer manufacturing company. (supported by certified truecopy of ISO certification)</p>	
	<p>Quality Assurance All components must be branded and should be factory installed with corresponding part numbers and descriptions that can be viewed and verified via web.</p>	

	<p>The manufacturer's signature must be etched or printed or embedded on the motherboard. (supported by a certification from the manufacturer)</p> <p>Must have a real-time, web-based warranty information on all parts.</p> <p>Brand must have a manufacturer's local depot for spare parts. (supported by a letter of certification and address from the manufacturer with the option of the agency to do site visit)</p>	
	<p>Processor Intel Core i5-10210U Processor (1.60GHz, up to 4.20GHz with Turbo Boost, 4 Cores, 6MB Cache), <i>Equivalent, or Higher</i></p>	
	<p>Chipset Integrated Chipset Silicon on Chip <i>or Equivalent</i></p>	
	<p>Security Chip Setting Trusted Platform Module (TPM) 2.0</p>	
	<p>Memory type 16GB DDR4 2666MHz</p>	
	<p>Storage 512GB Solid State Drive, M.2, PCIe-NVMe</p>	
	<p>Storage Support 1 - M.2 NVMe PCIe 3.0 SSD up to 1TB 1 - 2.5" SATA (<i>Optional</i>)</p>	
	<p>Graphics Integrated UHD Graphics</p>	
	<p>Display 14.0" HD (1366 x 768) 16:9 Anti-Glare 200nits</p>	
	<p>Camera 720P HD Camera with shutter</p>	
	<p>Microphone Dual array microphone</p>	

	Audio Integrated High Definition Audio	
	Speaker Built-in stereo speakers	
	Wireless LAN Intel WiFi 6 AX201, 802.11 ax Dual Band Wifi, Bluetooth Version 5.0, <i>Equivalent or compatible.</i>	
	I/O Ports 1 - USB-C 3.2 (support power delivery and display) 2 - USB-A 3.2 Gen 1 <i>1-VGA Port- either built-in or external adapter (Same Brand)</i> 1 - HDMI Port 1 - 3.5 Combo Audio Jack 1 - Micro SD card reader 1 - Ethernet port(RJ 45)	
	Keyboard <i>Backlit Keyboard with Multimedia Function Keys</i>	
	Touchpad Multi Gesture Touchpad	
	Physical Lock Kensington Security Slot	
	Security Features HDD Password Protection; BIOS boot password protection; Computrace ready; Fingerprint Sensor	
	Military-Spec Test US MIL-STD-810G military-grade standard	
	Energy Star Certification Energy Star 8.0 Certified	
	RoHS Certified Yes	
	Battery	

	45Whrs, Manufacturer Standard, 3-cell Li-ion Minimum	
	Power Adapter Manufacturer Standard	
	Weight Not more than 3.35 lbs	
	Carrying Case Slim Topload Case	
	Delivery Period 120 days	
	Warranty 3 years parts, 3 years labor, 3 years onsite : Next Business Day Must have a technical support Toll-Free number for technical assistance within working hours and should be operational and functional for at least within the warranty period. Must have the manufacturer's warranty certificate	
Lot 1	LOT 1 ITEM 2: Branded Laptop	
	ISO Certification Manufactured by an ISO 9001 or ISO 9002 certified Personal Computer manufacturing company. (supported by certified true copy of ISO certification)	
	Quality Assurance All components must be branded and should be factory installed with corresponding part numbers and descriptions that can be viewed and verified via web. The manufacturer's signature must be etched or printed or embedded on the motherboard. (supported by a certification from the manufacturer) Must have a real-time, web-based warranty information on all parts. Brand must have a manufacturer's local depot for spare parts. (supported by a letter of certification and address from the	

	manufacturer with the option of the agency to do site visit)	
	Processor Intel® Core™ i5-1135G7 Processor 2.4 GHz (8M Cache, up to 4.2 GHz, 4 cores)	
	Chipset Intel System on Chip platform	
	Security Chip Setting Enabled Discrete TPM2.0	
	Memory type 16GB DDR4 2666MHz	
	Memory Slot <i>1 x memory soldered to system board + 1 x DDR4 SO-DIMM slot, dual-channel capable or 2x DDR4 SO-DIMM slots, dual channel capable.</i>	
	Storage 512GB Solid State Drive, M.2, PCIe-NVMe	
	Storage Support 1 - M.2 NVMe PCIe 3.0 SSD up to <i>1TB</i> 1 - 2.5" SATA (<i>optional</i>)	
	Graphics Intel Iris Xe Graphics, <i>Equivalent or Compatible</i>	
	Display 15.6" FHD(1920x1080) Anti-Glare, LED backlit, 250nits	
	Camera 720P HD Camera with shutter	
	Microphone Dual array microphone	
	Audio Integrated High Definition Audio	
	Speaker Stereo Speakers	

	Ethernet Integrated Gigabit Network Connection	
	Wireless LAN Intel WiFi 6 AX201, 802.11 ax Dual Band Wifi, Bluetooth Version 5.0, <i>Equivalent or Compatible</i>	
	I/O Ports 1 x HDMI 1.4 <i>1-VGA Port- either built-in or external adapter (Same Brand)</i> 1 x 3.5mm Combo Audio Jack 1 x RJ45 LAN Jack for LAN insert(10/100/1000) <i>1x USB 2.0 Type-A (Type C is an upgrade and will be considered)</i> 2x USB 3.2 Gen 1 Type-A 1 - Micro SD card reader <i>1 x Thunderbolt 4 or 1 x USB-C 3.2 Gen 1(Display / Power Delivery)- (Optional)</i>	
	Keyboard <i>Backlit Keyboard with Num-keys, Spill-Resistant</i>	
	Touchpad Multi Gesture Touchpad	
	Physical Lock Kensington Security Slot	
	Security Features BIOS Booting Password Protection; HDD Password Protection; Computrace ready; Trusted Platform Module (TPM) 2.0; Fingerprint sensor	
	Military-Spec Test	

	MIL-STD-810H military-grade standard	
	Energy Star® Certification Energy Star 8.0 Certified	
	RoHS Certified Yes	
	Battery <i>42Whrs, Manufacturer Standard, 3-cell Li-ion Minimum</i>	
	Power Adapter <i>Manufacturer Standard</i>	
	Weight <i>3.9 lbs and below</i>	
	Carrying Case Slim Topload Case	
	Delivery Period 120 days	
	Warranty 3 years parts, 3 years labor, 3 years onsite : Next Business Day Must have a technical support Toll-Free number for technical assistance within working hours and should be operational and functional for at least within the warranty period. Must have the manufacturer's warranty certificate	
Lot 1	LOT 1 ITEM 3: All-in-One Branded Desktop Computer	
	ISO Certification Manufactured by an ISO 9001 or ISO 9002 certified Personal Computer manufacturing company. (supported by certified true copy of ISO certification)	
	Quality Assurance All components must be branded and should be factory installed with corresponding part numbers and descriptions that can be viewed and verified via web.	

	<p>The manufacturer's signature must be etched or printed or embedded on the motherboard. (supported by a certification from the manufacturer)</p> <p>Must have a real-time, web-based warranty information on all parts.</p> <p>Brand must have a manufacturer's local depot for spare parts. (supported by a letter of certification and address from the manufacturer with the option of the agency to do site visit)</p>	
	<p>Form Factor Integrated All-in-One</p>	
	<p>Processor Intel Core i5-10400 Processor (12MB Cache, up to 4.30GHz with Turbo Boost)</p>	
	<p>Chipset Intel H470 Chipset</p>	
	<p>Memory type 1x16GB DDR4 2666MHz SoDIMM</p>	
	<p>Memory slot Two (2) slots</p>	
	<p>Storage 512GB Solid State Drive, M.2 2242, PCIe-NVMe, TLC</p>	
	<p>Expansion Slot <i>1 x 2.5" SATA HDD</i></p>	
	<p>Graphics Integrated High Definition Graphics: 4K Support at 60 Hz, DirectX 12</p>	
	<p>Display 21.5" widescreen anti-glare(none-touch), Native Resolution: 1920x1080</p>	
	<p>Camera <i>Integrated 720p HD Camera</i></p>	
	<p>Microphone <i>Built-in array microphone</i></p>	
	<p>Audio Integrated High Definition Audio</p>	

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	Speaker <i>Built-in Speaker</i>	
	Ethernet Integrated Gigabit Network Connection	
	Wireless LAN Intel Wireless-AC ,802.11 ac Dual Band Wifi, Bluetooth Version 5.0, <i>Equivalent, or Compatible</i>	
	I/O Ports 2 - USB 3.2 (rear) 2- USB 2.0(rear) 2 - USB 3.2 (side) 1 - Microphone/Headphone Jack or 1 Universal Audio Jack 1 - Display Port 1 - RJ-45	
	Keyboard Standard USB Keyboard (same brand)	
	Pointing device Standard 2-Button Optical Scroll USB Mouse (same brand)	
	Physical Lock Kensington® Security Slot	
	BIOS Security Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Smart USB protection (allows keyboard / mouse only, blocks all storage devices) Individual USB port disablement Self-healing BIOS <i>or equivalent</i>	
	Energy Star® Certification Energy Star® 8.0 Certified	
	RoHS Certified Yes	

	<p>Military-Spec Test MIL-STD-810H military test passed (Low Pressure [Altitude], High Temperature, Low Temperature, Temperature Shock, Humidity, Sand and Dust, Vibration, Shock, Fungus, Solar Radiation)-<i>Optional</i></p>	
	<p>Delivery Period 120 days</p>	
	<p>Warranty 3 years parts, 3 years labor, 3 years onsite : Next Business Day Must have a technical support Toll-Free number for technical assistance within working hours and should be operational and functional for at least within the warranty period. Must have the manufacturer's warranty certificate</p>	
Lot 1	<p>LOT 1 ITEM 4: All-in-One Branded Desktop Computer</p>	
	<p>ISO Certification Manufactured by an ISO 9001 or ISO 9002 certified Personal Computer manufacturing company. (supported by certified true copy of ISO certification)</p>	
	<p>Quality Assurance All components must be branded and should be factory installed with corresponding part numbers and descriptions that can be viewed and verified via web. The manufacturer's signature must be etched or printed or embedded on the motherboard. (supported by a certification from the manufacturer) Must have a real-time, web-based warranty information on all parts. Brand must have a manufacturer's local depot for spare parts. (supported by a letter of certification and address from the</p>	

	manufacturer with the option of the agency to do site visit)	
	Form Factor Integrated All-in-One	
	Processor Intel® Core™ i5-1135G7 Processor 2.4 GHz (8M Cache, up to 4.2 GHz, 4 cores), <i>Equivalent, Compatible, or Higher</i>	
	Chipset <i>Intel HM570 Chipset or compatible with offered processor</i>	
	Memory type <i>16GB DDR4 SO-DIMM 2666Mhz</i>	
	Memory slot Two (2) slots	
	Storage 512GB M.2 NVMe PCIe 3.0 SSD	
	Expansion 1 x 2.5" SATA storage	
	Graphics NVIDIA GeForce MX330 <i>or equivalent</i>	
	Display <i>23.8" anti-glare, 1920x1080 Resolution, 16:9</i>	
	Camera Integrated 720P HD camera	
	Microphone Array with Microphone	
	Audio Integrated High Definition Audio	
	Speaker Two (2) Stereo Speakers	
	Ethernet Integrated Gigabit Network Connection	

	Wireless LAN Wi-Fi 5(802.11ac)+BT5.0 (Dual band)	
	I/O Ports 4x USB-A (with at least 2x USB-A 3.2 Gen 1) 1 – HDMI 1 - RJ-45	
	Keyboard Standard USB Keyboard (same brand)	
	Pointing device Standard 2-Button Optical Scroll USB Mouse (same brand)	
	Physical Lock Kensington® Security Slot	
	BIOS Security BIOS Booting User Password Protection; HDD User Password Protection and Security	
	Energy Star® Certification Energy Star® 8.0 Certified	
	RoHS Certified Yes	
	Delivery Period 120 days	
	Warranty 3 years parts, 3 years labor, 3 years onsite : Next Business Day Must have a technical support Toll-Free number for technical assistance within working hours and should be operational and functional for at least within the warranty period. Must have the manufacturer's warranty certificate	
Lot 1	LOT 1 ITEM 5: UNINTERRUPTABLE POWER SUPPLY	

	<p>Quality Assurance The brand's manufacturer must have a website for components or accessories, where information and descriptions can be viewed by the service provider and end-user. Brand must have a manufacturer's local depot for spare parts. (supported by a letter of certification and address from the manufacturer with the option of the agency to do site visit)</p>	
	<p>ISO Certification Manufactured by an ISO 9001 certified manufacturing company.</p>	
	<p>Output Power Capacity 325-360 Watts / 625-650 VA</p>	
	<p>Technology Line interactive</p>	
	<p>Nominal Output Voltage 230 V</p>	
	<p>Output Frequency Auto Sensing, 60Hz</p>	
	<p>Input Frequency 45 - 65Hz</p>	
	<p>Input voltage range for main operations 160-290V</p>	
	<p>Output Connections Four (4) NEMA 5-15R</p>	
	<p>Surge energy rating 190 Joules</p>	
	<p>Backup Time At least 16 mins for 1 PC</p>	
	<p>RoHS Compliant Yes(supported by Manufacturer's Certificate)</p>	
	<p>Communication Port</p>	

	USB Port	
	Management Software Yes	
	Delivery Period 120 days	
	Warranty 2 years parts, 2 years labor, 2 years onsite Must have a local technical support-for technical assistance within working hours and should be operational and functional for at least within the warranty period. Must have the manufacturer's warranty certificate	
Lot 2	3 – High Specs Laptop	
	ISO Certification Manufactured by an ISO 9001 or ISO 9002 certified Personal Computer manufacturing company. (supported by certified true copy of ISO certification)	
	Quality Assurance All components must be branded and should be factory installed with corresponding part numbers and descriptions that can be viewed and verified via web. The manufacturer’s signature must be etched or printed or embedded on the motherboard. (supported by a certification from the manufacturer) Must have a real-time, web-based warranty information on all parts. Brand must have a manufacturer’s local depot for spare parts. (supported by a letter of certification and address from the manufacturer with the option of the agency to do site visit)	
	Processor Intel Core i7-10750H processor (12 MB Smart Cache, 2.6 GHz with Turbo Boost up to 5.0 GHz, DDR4)	
	Memory type 32GB (2 x 16GB DDR4), upgradable to 32 GB using two soDIMM modules	

	Storage 512GB NVMe SSD + 1 TB 2.5-inch 7200 RPM	
	Display Panel/Resolution 15.6" display with IPS (In-Plane Switching) technology, Full HD 1920 x 1080, high-brightness (250 nits) Acer ComfyView™ LED-backlit TFT LCD, supporting 144 Hz, 16:9 aspect ratio, NTSC 72%, Wide viewing angle up to 170 degrees Ultra-slim design Mercury free, environment friendly	
	Graphics NVIDIA® GeForce® RTX 3060 with 6 GB of dedicated GDDR6 VRAM New NVIDIA Ampere Architecture with new RT cores, Tensor cores and streaming multiprocessors for the most realistic ray-traced graphics and cutting-edge AI features.	
	Network Connection WLAN <ul style="list-style-type: none"> • Killer™ Wi-Fi 6 AX1650i • 802.11 a/b/g/n+acR2+ax wireless LAN <ul style="list-style-type: none"> • Dual Band (2.4 GHz and 5 GHz) • 2x2 MU-MIMO technology • Supports Bluetooth® 5.0 LAN <ul style="list-style-type: none"> • Killer™ Ethernet E2600 • 10/100/1000 Mbps • Hibernation mode support • Wake On Lan support • IPv4 and IPv6 support 	
	Operating System Windows 10 Home	
	Audio <ul style="list-style-type: none"> • DTS® X:Ultra Audio, featuring optimized Bass, Loudness, Speaker Protection with up to 6 custom content modes by smart amplifier • Supported in Windows Spatial Sound for PC Gaming with DTS license integrated • Immersive audio rendering over headphones and internal speakers 	

	<ul style="list-style-type: none"> • Acer Purified.Voice technology with dual built-in microphones. Features include far-field pickup, keystroke suppression, adaptive beam forming, and pre-defined personal and conference call modes. • Compatible with Cortana with Voice • Acer TrueHarmony technology for lower distortion, wider frequency range, headphone-like audio and powerful sound 	
	<p>Dimensions 363.4 (W) x 255 (D) x 22.9/4 (H) mm (14.31 x 10.04 x 0.9/0.16 inches)</p>	
	<p>Weight 2.5 kg (5.51 lbs.) with 4-cell battery pack</p>	
	<p>Camera Video conferencing HD webcam with:</p> <ul style="list-style-type: none"> • 1280 x 720 resolution • 720p HD audio/video recording • Super high dynamic range imaging (SHDR) 	
	<p>I/O Ports</p> <p>USB Type-C™ port supporting:</p> <ul style="list-style-type: none"> • USB 3.2 Gen 2 (up to 10 Gbps) • USB charging 5 V; 3 A <p>One USB 3.2 Gen 2 port featuring power-off USB charging Two USB 3.2 Gen 1 ports Ethernet (RJ-45) port HDMI® 2.0 port with HDCP support Mini DisplayPort™ 1.4 3.5 mm headphone/speaker jack, supporting headsets with built-in microphone DC-in jack for AC adapter</p>	
	<p>Keyboard Keyboard 103-/104-/107-key FineTip RGB-backlit keyboard with independent standard numeric keypad, international language support TouchPad Multi-gesture touchpad, supporting two-finger scroll; pinch; gestures to</p>	

	<p>open Cortana, Action Center, multitasking; application commands</p> <ul style="list-style-type: none"> • Microsoft Precision Touchpad certification • Moisture resistant Control Key 	
	<p>BIOS Security</p> <p>Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse Smart USB protection (allows keyboard / mouse only, blocks all storage devices) Individual USB port disablement Self-healing BIOS</p>	
	<p>Warranty</p> <p>3 years parts, 3 years labor, 3 years onsite : Next Business Day</p> <p>Must have a technical support Toll-Free number for technical assistance within working hours and should be operational and functional for at least within the warranty period.</p> <p>Must have the manufacturer's warranty certificate</p>	
	<p>1 – Laptop (for Streaming)</p>	
	<p>ISO Certification</p> <p>Manufactured by an ISO 9001 or ISO 9002 certified Personal Computer manufacturing company. (supported by certified true copy of ISO certification)</p>	
	<p>Quality Assurance</p> <p>All components must be branded and should be factory installed with corresponding part numbers and descriptions that can be viewed and verified via web.</p> <p>The manufacturer's signature must be etched or printed or embedded on the motherboard. (supported by a certification from the manufacturer)</p>	

	<p>Must have a real-time, web-based warranty information on all parts. Brand must have a manufacturer's local depot for spare parts. (supported by a letter of certification and address from the manufacturer with the option of the agency to do site visit)</p>	
	<p>Processor Intel Core i5 7300HQ 2.5 GHz Base Clock Speed 6MB Cache</p>	
	<p>Memory type 8GB with 2 RAM Slots Expandable RAM up to 32GB</p>	
	<p>Storage 1TB HDD</p>	
	<p>Display Panel/Resolution 15.6" 1920 x 1080 pixels</p>	
	<p>Graphics Graphics Processor: Nvidia GEFORCE GTX 1050 Dedicated Graphic Memory Type: GDDR5</p>	
	<p>Network Connection Wi-Fi Standards supported: 802.11 a/b/g/n/ac Ethernet: Gigabit Ethernet</p>	
	<p>Operating System Windows 10 Home</p>	
	<p>Dimensions 390.00 x 266.00 x 26.75 (mm)</p>	
	<p>Weight 2.7 kg</p>	
	<p>Camera Video conferencing HD webcam with: • 1280 x 720 resolution • 720p HD audio/video recording • Super high dynamic range imaging (SHDR)</p>	
	<p>I/O Ports No. of USB Ports: 4 USB Ports: 2 x USB 2.0, 1 x USB 3.0</p>	
	<p>BIOS Security Power-on password Administrator password Hard disk password Boot sequence control Boot without keyboard and mouse</p>	

	<p>Smart USB protection (allows keyboard / mouse only, blocks all storage devices)</p> <p>Individual USB port disablement</p> <p>Self-healing BIOS</p>	
	<p>Warranty</p> <p>3 years parts, 3 years labor, 3 years onsite : Next Business Day</p> <p>Must have a technical support Toll-Free number for technical assistance within working hours and should be operational and functional for at least within the warranty period.</p> <p>Must have the manufacturer's warranty certificate</p>	