

## Procurement of IT Equipment & Software 2023

### BID BULLETIN NO. 1

This Bid Bulletin clarifies the queries that were raised during the Pre-bid Conference on 31 May 2023 at 10:00 AM, as well as other matters relative to the **Procurement of IT Equipment & Software 2023**.

QUERIES	CLARIFICATION/S
<p>1. Clarifications on <b><u>Section VI. Schedule of Requirements.</u></b></p> <p><i>Can we clarify the delivery of the Goods? Provided in the ITB the required days- "one hundred fifty (150) calendar days", but in Section VI. Schedule of Requirements - "Within 90 calendar days from receipt of Notice to Proceed"</i></p>	<p>The winning bidder/bidders must deliver the goods within 90 calendar days from the receipt of Notice to Proceed (NTP).</p>
<p>2. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment Item no. 5 - Application Server (Active Directory)</u></b></p> <p><b>Inclusions: Rail Kit, LAN cable</b></p> <p><i>Can we clarify the length of cable?</i></p>	<p>The length of the LAN cable shall be at least three (3) meters.</p>
<p>3. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment Item no. 2. - Notebook 15"</u></b></p> <p><i>Can we relax the battery of the manufacturer, may we suggest <u>Lithium Polymer OR Lithium Ion?</u></i></p>	<p>Only Lithium Polymer will be accepted.</p>
<p>4. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment Item no. 5 - Application Server (Active Directory)</u></b></p> <p><b>"The supplier shall supply the products in recyclable packages and shall provide a packaging take-back service."</b></p> <p><i>Can we clarify if we will resolve for the disposal of equipment/items after the</i></p>	<p>BCDA shall dispose of the equipment/items after the end-of-life <i>product or the end of warranty.</i></p>

<p><i>end-of-life product or the end of warranty.</i></p>	
<p>5. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b></p> <p><b>Item no. 3 - PC Workstation</b></p> <p><b>System Specifications:</b> <b>Display: 23.8" Monitor with HDMI or higher</b></p> <p><i>Can we clarify If the HDMi is bundled cable OR supported ports in monitor</i></p>	<p>HDMI cable is bundled with the monitor.</p>
<p>6. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b></p> <p><b>Item no. 3 - PC Workstation</b></p> <p><b>System Specifications:</b> <b>Wireless: Intel Wireless 2x2ax + Bluetooth or higher</b></p> <p><i>Can we clarify on the Wireless Workstation, would you consider omitting wireless of the workstation? Workstation with Xeon processors prioritize performance and stability which are better achieved through wired connections.</i></p>	<p>No, the Wireless specification shall remain.</p>
<p>7. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b></p> <p><b>Other conditions:</b></p> <p><b><i>"The supplier must be an Authorized Service Partner and reseller of the products/units. Please present any proof" being offered:</i></b></p> <p><i>As there are brands with Centralized After-Sales support, they are the ones assigned with regards to repairs onsite and not the supplier. Would you consider omitting that part?</i></p>	<p>Requirement as being an "Authorized Service Partner" will be omitted. The winning bidder should ensure that all reported issues are acted upon. The supplier or manufacturer should have a centralized email or telephone number.</p>

<p>8. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b></p> <p><b>Item No. 2 Notebook 15"</b></p> <p>There are 24 units and 1 unit (Notebook 13") with different technical specifications presented in the TOR. May we ask the specification of 1 unit (Notebook 13")</p>	<p>Refer to the updated Technical Compliance Form under Lot 1 Item 2.2 Notebook 13".</p>
<p>9. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b></p> <p><b>Item No. 1 Desktop</b> <b>"Ports: 2.0 and/or 3.2 USB, USB-C (min of 4 USB ports), HDMI, RJ45, Audio jack; (separate adaptors/connectors accepted)"</b></p> <p>Does the Ports: 2.0 and/or 3.2 USB, USB-C or higher refer to combination or either back or front</p>	<p>Ports (1)2.0 and/or (2) 3.2 USB, (3) USB-C or higher should be available on the back or front or combination thereof.</p>
<p>10. Technical Specifications for PC workstation; double input of (minimum of 4 USB ports)</p>	<p>Omit the second - min of 4 usb ports. Please refer to the updated Technical Compliance Form</p>
<p>11. Technical Specifications for PC workstation, must have Environment EPEAT Silver or Energy Star 7 Qualified or Higher; would you consider replacing OR with AND?</p>	<p>Replace <i>or</i> with <i>and/or</i>.</p>
<p>12. Clarification on <b><u>Section VIII. Checklist of Technical and Financial Documents;</u></b></p> <p>Do we need to attach Class A documents (Mayor's Permit and SEC)?</p>	<p>No.</p> <p>During Bid Submission, the requirement is to submit <b>Valid PhilGEPS Certificate of Registration under Platinum Membership (all pages) in accordance with Section 8.5.2 of the IRR.</b></p> <p>However, during the post qualification, BCDA will require the Lowest Calculated Bidder (LCB) to present valid Class A documents.</p>
<p>13. Clarification on <b><u>Section VIII. Checklist of Technical and Financial Documents;</u></b></p>	<p>The Bidder is required to provide an <b>ENUMERATION</b> of ALL its ongoing government and private contracts. The Statement of all ongoing contracts <b>is merely a "list"</b> of all</p>

<p>Ongoing Projects, is it needed to provide proof of ongoing projects?</p>	<p>ongoing contracts relative to all its ongoing government and private contracts, and not the actual submission of the physical Notice of Award (NOA), Notice to Proceed (NTP) or Contract.</p> <p>However, during the post qualification, BCDA will request supporting documents to verify the truthfulness of the "Statement of all ongoing contracts" submitted by the bidder/s during the submission of bids.</p>												
<p>14. Clarification on the Cost of Bidding Documents per Lot.</p> <p>If we opted to bid for one (1) lot only</p>	<p>Cost of Bidding Documents, pursuant to Appendix 8 "Guidelines on the Sale of Bidding Documents" of the 2016 Revised IRR of R.A. No. 9184.;</p> <table border="1" data-bbox="781 814 1409 1226"> <thead> <tr> <th><u>LOT</u></th> <th><u>ABC</u></th> <th><u>Cost of Bidding Documents</u></th> </tr> </thead> <tbody> <tr> <td><b>Lot 1</b> Hardware</td> <td><b>7,640,000.00</b></td> <td>Php 10,000</td> </tr> <tr> <td><b>Lot 2</b> Internet Access Gateway</td> <td><b>3,800,000.00</b></td> <td>Php 5,000</td> </tr> <tr> <td><b>Lot 3</b> Software</td> <td><b>1,170,000.00</b></td> <td>Php 5,000</td> </tr> </tbody> </table> <p>If the bidder opted to submit bid for all the Lots (Lot 1, 2, &amp; 3), the cost of bidding documents is <b>Php 25,000.00</b></p>	<u>LOT</u>	<u>ABC</u>	<u>Cost of Bidding Documents</u>	<b>Lot 1</b> Hardware	<b>7,640,000.00</b>	Php 10,000	<b>Lot 2</b> Internet Access Gateway	<b>3,800,000.00</b>	Php 5,000	<b>Lot 3</b> Software	<b>1,170,000.00</b>	Php 5,000
<u>LOT</u>	<u>ABC</u>	<u>Cost of Bidding Documents</u>											
<b>Lot 1</b> Hardware	<b>7,640,000.00</b>	Php 10,000											
<b>Lot 2</b> Internet Access Gateway	<b>3,800,000.00</b>	Php 5,000											
<b>Lot 3</b> Software	<b>1,170,000.00</b>	Php 5,000											
<p>15. <u>Clarification on Section III. Bid Data Sheet,</u></p> <p>re S: Can the bidder only submit SLCC applicable to the Lot applied (ie. if the bidder will only submit for IT Equipment, the SLCC will only involve equipment (not to include software)?</p>	<p><b>SLCC similar to the lot to be bid, shall refer to:</b></p> <p>For Lot 1 - Desktop or Laptop and Servers.</p> <p>For Lot 2 - Internet Access Manager or Internet Access Gateway or Bandwidth Manager Equipment.</p> <p>For Lot 3 - IT Software</p>												
<p>16. Clarification on <u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></p> <p><b>Item No. 5 Server under Inclusions: LAN Cable</b></p>	<p>Installation and configuration of Active Directory is included. Please refer to the updated Technical Compliance Form.</p>												

<p>Is there a preferred length of the cable?</p> <p>Clarification if Installation and configuration is only on the OS level. Application and activation of active Directory is not included?</p> <p>Maybe these can be included in the supplemental bid.</p>	
<p>17. Clarification on the <b><u>Bidding Documents</u></b>:</p> <p>If several lots are to be applied by a bidder, will the submission of bid docs be done separately or can be submitted together?</p>	<p>You can submit one (1) eligibility document for two or more lots. However, you need to submit the corresponding technical and financial proposals for the specific lots that you are bidding in. Please be guided by the bidding documents and this bid bulletin when you prepare your bid proposals.</p>
<p>18. Clarification on <b><u>Installation and configuration</u></b>.</p> <p>The word installation and configuration is omitted in the Presentation. Bidder requesting for final details of the bidding as there are many omitted tech specs on the presentation that are present in the bid documents.</p>	<p>Installation and configuration of Active Directory is included. Please refer to the updated Technical Compliance Form.</p>
<p>19. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment Item No. 5, Application Server</u></b>, with Installation and Configuration: will there be a migration activity?</p> <p>To clarify if there is No lower Operating System in the existing?</p>	<p>Yes, there will be migration activity. The current Operating System is Windows Server 2008 R2.</p>
<p>20. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment Item no. 2. - Notebook 15"</u></b></p> <p>21. 34 units of Notebook 15" battery can be relaxed to manufacturer default: Li-on Polymer or Li-on Ion.</p>	<p>Lithium Polymer</p> <p>Same as Item #3. This is per Lot basis, however, the unit price proposal for each item should not exceed the listed unit price budget.</p>

	Clarification whether Lot basis or Item basis	
22.	<p>Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment Item No. 5, Application Server</u></b></p> <p>Clarification on what is needed: Device CAL and User CAL</p>	User CAL.
23.	<p>Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment Item No. 3 PC workstation</u></b></p> <p>CPU: Clarification if the Processor required is non CORES Xeon CPU for WSeries</p>	Minimum requirement will be 4-core Intel Xeon CPU.
24.	<p>Item 1 &amp; 2 regarding Ports: (separate adapter or connectors)</p> <p>Clarification if the adapter and connectors are not of the same brand with the desktop/laptop being offered?</p>	Different brand of adapters or connectors will be accepted.
25.	<p>Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b></p> <p><b>“Other Conditions: Certification from the product manufacturer/reseller that the products being offered are brand-new.”</b></p> <p>Clarification if manufacturer OR reseller can issue the certification?</p>	Yes, either the reseller or the manufacturer.

<p>26. Clarification on the List of Ongoing Projects, no need to attach anything; SLCC only needs supporting documents.</p> <p>Does the bidder should Include ALL on-going projects?</p>	<p>For Ongoing Contract</p> <p>The requirement is submission of a “<u>statement</u>” of <b>ALL</b> ongoing Contracts. It refers to a “statement” to be made by the bidder relative to <b>all its ongoing government and private contracts</b>, and not the actual submission of the physical NOA, NTP or Contract</p> <p>For SLCC</p> <p>The requirement is to submit the statement of <b>SLCC</b> and the bidder shall attach <b>any</b> of the following proof:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> End User’s Acceptance; or</li> <li><input type="checkbox"/> Official Receipt issued for the contract; or</li> <li><input type="checkbox"/> Sales Invoice issued for the contract, if completed</li> </ul>
<p>27. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 2) Internet Access Gateway</u></b></p> <p><b>“On-site support shall be provided and addressed by supplier the following working day from receipt of notice from BCDA”</b></p> <p>Can on-site support be provided and addressed upon assessment of concern?</p>	<p>On-site support shall be provided and addressed by suppliers on the following working day upon determination of its need after the conduct of initial assessment or trouble shootings by the supplier/manufacturer engineer.</p>
<p>28. Are we supposed to include projects that have been delivered but not yet paid for in the Ongoing Projects?</p>	<p>Yes.</p>
<p>29. <b><u>Clarification on the Title;</u></b></p> <p>Can we include in the SLCC projects that are composed of desktops with installed softwares?</p> <p>Or a project with a server must be included in Lot 1?</p>	<p>For Lot 1 - Desktop or Laptop and Servers. The installed software can be computed as part of the Desktop or Laptop and Servers contract.</p> <p>For Lot 2 - Internet Access Manager or Internet Access Gateway or Bandwidth Manager Equipment.</p> <p>For Lot 3 - IT Software</p>
<p>30. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b></p>	<p>Yes bidder can present desktop OR laptop and server as SLCC for Lot 1</p>

31. Clarification on deadline for buying bidding documents	Availability of Bidding Documents for sale is until the Deadline of submission of Bids at <b>9:00 AM on 14 June 2023 (Wednesday)</b> at the BCDA Corporate Center, 2nd Floor Bonifacio Technology Center, 31st St. cor. 2nd Avenue, Bonifacio Global City, Taguig City.
32. Clarification on the Ongoing project: Outstanding amount of the delivered but not yet paid for projects.	Outstanding amount of the delivered but not yet paid for projects shall be included in the List of ALL Ongoing Contracts.
33. Clarification on non purchase of bid documents will result to non-receipt of bid documents	To reiterate, we will only accept bid offers/ proposals from the bidders who are able to purchase bidding documents on or before the deadline of submission of bids.
34. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b>  <b>Item No. 5 Server</b> OS - Would like to clarify if this User CAL. If yes, would it be ok to include it in the TOR?	User CAL. Please refer to the Updated Technical Compliance Form.
35. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b>  <b>Item No. 5 Server</b> PCIe - Since the TOR is only single CPU, would you consider 1 PCIe port instead? Rest assured that there will still be a spare 1xPCIe slot + the populated slot taken by the NIC in the TOR	We are requiring 2 PCIe slots. If one is taken by the NIC there must a spare PCIe slot remain.
36. Clarification on <b><u>Section VII. Technical Specifications. - (Lot 1) IT Equipment</u></b>  <b>Item No. 5 Server</b> CPU - Per checking the CPU is based on an older Xeon bronze processor. Would you consider something higher like silver?	Yes, we can consider a Silver Xeon processor or higher.
37. Clarification on <b><u>Section VII. Technical Specifications. (Other Conditions)</u></b>  <b>“On-site support shall be provided and addressed by suppliers on the</b>	On-site support shall be provided and addressed by suppliers on the following working day upon determination of its need after the conduct of initial assessment or trouble shootings by the supplier/manufacturer engineer.



<p><b>following working day from receipt of notice from BCDA.”</b></p> <p>Can you consider onsite support to be provided depending on the initial assessment of the reported concern or problem of the unit? This is because initial trouble shootings and assessments are done prior to sending engineers for onsite support.</p>	
--	--

**The revised and updated Technical Specifications Compliance Form is hereto attached as (Annex “A”); The Statement of all Ongoing Government and Private Contracts Awarded but not yet Started is hereto attached as (Annex “B”);**

Please take note of the following schedule:

Activities	Date/Schedule
Deadline for Request for Clarification, if any	02 June 2023 (Friday)
Issuance of Bid Bulletin, if any	05 June 2023 (Monday)
<b>Deadline for Submission of the ff:</b>	<b>9:00 AM, 14 June 2023 (Wednesday)</b>
<ul style="list-style-type: none"> <li>• Eligibility Requirements</li> <li>• Financial Proposal</li> </ul>	
<b>Opening of Bids</b>	<b>10:00 AM, 14 June 2023 (Wednesday)</b>

The above changes further amend the bidding documents, accordingly. **The Opening of Bids will be conducted face-to-face** at the **BCDA Corporate Center, 2nd Floor, Bonifacio Technology Center, 31st St. corner 2nd Ave, Bonifacio Global City, Taguig City**, However, the bidders may opt to attend online via zoom.


For those attending in person, please consider the following guidelines:

- Attendees to the Pre-bid Conference and Opening of Bids are expected to follow the BCDA Health Protocols; and
- Observers/representatives who show signs of COVID-19 related symptoms are not allowed to enter the BCDA premises.

This Bid Bulletin is being issued pursuant to Sections 22.5.2 and 22.5.3 of the 2016 Revised Implementing Rules and Regulations of Republic Act 9184. Issued on **05 June 2023 (Monday)**.

**BIDS AND AWARDS COMMITTEE FOR GOODS**

By:

  
**RICHARD BRIAN M. CEPE**  
Chairperson

**“ANNEX A”**

# Technical Specifications IT Equipment & Software for CY 2023

## TERMS OF REFERENCE / TECHNICAL SPECIFICATIONS

Lot No.	Unit	Item No.	Description	Compliance	
				Compliant	Non-Compliant
				<p>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.</p>	
<b>Lot 1</b>	<b>24 units</b>	<b>1.</b>	<b>Desktop</b>		
			<i>System Specifications:</i>		
			• Type: AIO or Tiny, Mini, Micro, or equivalent		
			• Processor: Intel Core i7 13th Gen or higher		
			• Memory: 16GB DDR4 or higher		
			• Storage: 1TB M.2 SSD or higher		
			• Wireless: WLAN 802.11 ax + BT5.1 or higher		
			• Ports: 2.0 and/or 3.2 USB, USB-C (min of 4 usb ports), HDMI, RJ45, Audio jack; (separate adaptors/connectors accepted),		
			• Display: 23.8" Display		
			• Graphics: Integrated HD Graphics		
			• OS: Genuine Microsoft Windows 11 Pro 64 bit		
			<i>Others:</i>		
			• Internal Speaker		
			• Camera Full HD 1080p (external accepted)		
			• Optical drive (external accepted)		
			• USB Keyboard and Optical Mouse (same brand)		
			• Headset or earphone (genuine global brand)		
			• VESA Mount (for Tiny, Mini, Micro, or equivalent)		
			• 650 VA UPS		
			• Must have Energy Star 6.1 or higher; and/or EPEAT Gold and/or RoHS compliant		



			<i>Warranty:</i>		
			• For the Desktop: 3 years Parts and Labor and Onsite (3/3/3)		
			• For the UPS: 2 years, For the battery: 1 year		
		<b>2.</b>	<b><u>Notebook</u></b>		
<b>33 units</b>	<b>2.1</b>		<b>Notebook 15"</b>		
			<i>System Specifications:</i>		
			• Processor: Intel Core i7 13th Generation or higher		
			• Display: 15 inch (1920x1080) Anti-glare		
			• Memory: 16GB DDR4 or higher		
			• Storage: 1TB GB M.2 SSD or higher		
			• Ports: 3.2 USB, USB-C, HDMI, RJ45, Audio jack (separate adaptors/connectors accepted)		
			• Graphics: 2GB Graphics memory		
			• Battery: Li-Polymer Battery		
			• Camera: HD 720P Camera with Microphone		
			• Wireless: WLAN 2x2ax + Bluetooth 5.1 or higher		
			• OS: Genuine Microsoft Windows 11 Pro 64 bit		
			<i>Others:</i>		
			• Wireless Optical Mouse (same brand)		
			• Headset or earphone (same or genuine global brand)		
			• Fingerprint Reader		
			• With Carrying Case (Backpack type)		
			• AC Adapter - US		
			• Must have Energy Star 6.1 or higher; and/or EPEAT Gold and/or RoHS compliant		
			<i>Warranty:</i>		
			• 3 years Parts and Labor and Onsite (3/3/3)		
<b>1 unit</b>	<b>2.2</b>		<b><u>Notebook 13"</u></b>		
			<i>System Specifications:</i>		
			• Processor: M2 Pro chip with 8-core CPU, 10-core GPU or higher		
			• Memory: 8GB Unified memory		
			• Storage: 256GB SSD storage		
			• Backlit Keyboard with Ambient light sensor		
			• Display: 13.3-inch Retina display		
			• Battery: Built-in 58.2-watt-hour lithium-polymer battery		
			• Ports: Two (2) Thunderbolt /USB4 ports		
			• Wireless: 802.11ax Wi-Fi, Bluetooth 5.0 or higher		
			• Camera: 720p HD camera		
			• OS: Latest Genuine Operating System		
			<i>Others:</i>		
			• USB-C Power Adapter		
			• Multi-Touch trackpad		
			• Energy Star certified		
			<i>Warranty:</i>		
			• One (1) Year Parts and Labor		
<b>5 units</b>	<b>3.</b>		<b><u>PC Workstation</u></b>		
			<i>System Specifications:</i>		
			• Type: Tower Workstation		
			• Processor: Intel Xeon CPU W-Series, 4-core or higher		
			• Memory: 32GB Memory DDR4 Non-ECC or higher		
			• Storage: 1 TB SSD or higher		
			• Graphics: 4 GB or higher		
			• LAN: 10/100/1000, Integrated Gigabit Ethernet		
			• Ports: USB 2.0 and/or 3.1 or higher (min of 4 usb ports), Audio Jack/s, Display (separate adaptors/connectors accepted)		
			• Wireless: Intel Wireless 2x2ax + Bluetooth or higher		
			• Display: 23.8" Monitor with HDMI port and cable or higher		
			• OS: Genuine Microsoft Windows 11 Pro 64 bit		

			<i>Others:</i>		
			• Integrated Intel SATA Controller		
			• Camera Full HD 1080p (external accepted)		
			• Keyboard and Optical Mouse (same brand)		
			• Optical Drive (external accepted)		
			• 1 KVA UPS		
			• Must have Environment EPEAT Silver and/or Energy Star 7 Qualified or higher; and/or RoHS compliant		
			<i>Warranty:</i>		
			• For the Workstation: 3 years Parts and Labor and Onsite (3/3/3)		
			• For the UPS: 2 years, For the battery: 1 year		
	<b>1 unit</b>	<b>4.</b>	<b><u>Notebook for Design</u></b>		
			<i>System Specifications:</i>		
			• Processor: M2 Pro chip with 12-core CPU, 19-core GPU or higher		
			• Memory: 16GB Unified memory		
			• Storage: 512GB SSD storage		
			• Backlit Keyboard with Touch ID - US English		
			• Display: 16-inch (diagonal) XDR display		
			• Battery: Built-in 100-watt-hour lithium-polymer battery		
			• Ports: Three (3) Thunderbolt /USB4 ports, HDMI port		
			• Wireless: 802.11ax Wi-Fi, Bluetooth 5.0 or higher		
			• Camera: 1080p HD camera		
			• OS: Latest OS		
			<i>Others:</i>		
			• USB-C Power Adapter		
			• Multi-Touch trackpad		
			• Energy Star certified		
			<i>Warranty:</i>		
			• One (1) Year Parts and Labor		
	<b>1 unit</b>	<b>5.</b>	<b><u>Application Server (Active Directory)</u></b>		
			<i>Specifications:</i>		
			• Form Factor: Rack Mounted		
			• Processor: Intel Xeon processor Gen10 6-core or higher		
			• Cache Memory: : 8.25 L3 Cache		
			• Operating System: Windows Server 2022 Standard - 16 Core License Pack with 350 licenses Windows Server 2022 User CAL with Recovery Image, Multi Language		
			• Memory: 32GB DDR4 DIMM		
			• Internal Storage: 2x1TB or higher RAID1		
			• Slots: 2 x PCIe Gen3 slots		
			• Network Controller: Ethernet 10Gb 2-port SFP+		
			• With 10Gb SFP+ SR Transceiver		
			• Power Supply: 500W Hot Plug Power Supply (1+1) or higher		
			• Ports: USB 3.0		
			• Warranty: 3-year parts, 3-year labor, 3-year onsite support with next business day (NBD) response		
			• Energy Star certified; EPEAT: Gold; RoHS: Yes		
			<i>Inclusions:</i>		
			• Optical Drive (External accepted)		
			• Rail Kit, LAN cable (3m)		
			• With Installation and Configuration		
			<i>Scope of Work:</i>		
			- Connection to BCDA network;		
			- Configuration of Active Directory role;		
			- Configuration of DHCP and DNS role;		
			- Migration from previous Active Directory server configuration;		
			- Migration from previous DHCP and DNS server configuration;		
			- Testing and commissioning.		
			<b>Other Conditions:</b>		

		<ul style="list-style-type: none"> <li>All specifications are minimum requirements. Proponents may propose equivalent or higher specifications.</li> </ul>		
		<ul style="list-style-type: none"> <li>The supplier must propose globally-known brands.</li> </ul>		
		<ul style="list-style-type: none"> <li>Full replacement of defective unit/s should be 45 working days from the delivery of the items. If a full replacement is not yet possible, a service unit shall be provided by the supplier within 48 hours from receipt of notice of the defective unit.</li> </ul>		
		<ul style="list-style-type: none"> <li>The supplier shall supply the appliance where the availability of parts, replacement batteries, and power supplies is guaranteed for at least 5 years after the end of production.</li> </ul>		
		<ul style="list-style-type: none"> <li>The supplier shall supply the products in recyclable packages and shall provide a packaging take-back service.</li> </ul>		
		<ul style="list-style-type: none"> <li>The supplier must be an authorized reseller of the products/units being offered. Please present any proof.</li> </ul>		
		<ul style="list-style-type: none"> <li>Certification from the Product Manufacturer or Reseller that the products/units being offered are all brand new and original and not refurbished.</li> </ul>		
		<ul style="list-style-type: none"> <li>The supplier must provide a Warranty Certificate in favor of BCDA for the parts and services of the units.</li> </ul>		
		<ul style="list-style-type: none"> <li>The supplier or manufacturer should have a centralized email or telephone number for support/warranty claims.</li> </ul> <p>On-site support shall be provided and addressed by suppliers on the following working day upon determination of its need after the conduct of initial assessment or trouble shootings by the supplier/manufacturer engineer..</p>		
		<ul style="list-style-type: none"> <li>The obligation for the warranty shall be covered by Retention money in an amount equivalent to at least one percent (1%). The said amounts shall only be released after the lapse of the warranty period indicated per item of the TOR.</li> </ul>		
<b>Lot 2</b>		<b>Internet Access Management</b>		
	<b>1 lot</b>	<b>Supply, delivery, installation, configuration, and testing of Internet Access Management (IAM) with Bandwidth Management System</b>		
		<b>Features:</b>		
		<b>1. User Authentication and Management</b>		
		User Identification - Must support ability to identify user base on IP, MAC, hostname.		
		User account importing - Must support import user accounts information via CSV file, and support synchronize users with LDAP, database.		
		Main authentication - Must support password based on SMS, QR code, Facebook, LDAP, RADIUS, POP3, CAS, H3C CAMS authentication.		
		Integration and authentication option - Must support single sign-on authentication base on Active Directory, Radius, POP3, Proxy, Web Server, HTTP API, Database Server. Support integration with SMS authentication, Facebook authentication, QR code authentication, and other popular authentication methods.		
		User self registration - User can submit the application information, and then IT administrator can approve the application, support add new item of information collection.		
		Account attribution - Must support custom account attribution and access control configuration based on account attribution.		
		Account binding - Must support IP, MAC bind with user account.		
		<b>2. Proxy</b>		
		Proxy mode - Must support HTTP transparent, Socks4/Socks5 proxy, PAC Script.		
		Proxy policy - Must support using proxy policy based on source IP group, destination domain.		
		HTTP proxy & ICAP - Must support associate with ICAP server, support multi-ICAP server.		
		Cascading proxy - Must support cascading proxy configuration i.e allow another proxy connect to an upstream proxy.		
		<b>3. Access Control</b>		
		▪ <b>Application control</b>		
		Application Database must support more than 6000+ applications in its database including 700+ cloud applications, 1000+ mobile applications, 300+ web applications and must support self-define app rules.		
		Must support application database update in every 2 weeks		
		Service control - Must support access management based on services or ports such as HTTP(80), HTTPS(443), TELNET(23), SSH(22), FTP(21), SMTP(25), POP3(110).		
		<i>URL filter</i>		
		Must support ten million URLs of URL database, must include sub categories such as pornographic, gambling, games, illegal drugs, counteraction, financial, education in URL database.		
		Must support self-define URL groups.		
		Must support filter the websites base on URL, searching keyword, file types. Must support URL redirect to specific page if system block some illegal URLs, must support customization of this page.		
		<i>Enhanced email control</i>		

		Must support control and audit the email base on source address, destination address, keywords in email, keywords in body/title, attachment type/size/count.		
		Must support block and audit Gmail, Yahoo mail, Hotmail via Foxmail, Outlook, Flashmail client.		
		Must support block and audit web mail base on sender/receiver information, key word, attachment file type for application such as exchange, hotmail.		
		<i>Enhanced IM control</i>		
		Must support content record and audit to IM tools such as Yahoo, Google-talk, web-MSN, as well as encrypted IM such as Skype.		
		<i>Support IM chat in offline audit policy</i>		
		Enhanced social media application control - Must support encrypt social media application management at least Facebook, Twitter, Instagram, LinkedIn.		
		<b>▪ Enhanced forums management</b>		
		Must support identification and control for forums such as detik.com, compass.com, support content filtering based on key words.		
		Support audit of forums and web sites, including record of destination URL, title, content, support content search based on key word in management center.		
		Keywords filtering - Must support keywords filtering for search engine, at least Google, Yahoo, Bing.		
		File filter - Must support control HTTP, FTP upload and download activity based on file type at least docx, xlsx, pptx, txt, rar, bat, exe, pdf, zip, rar, gz, bz2, Z, tgz, tbz, 7z, cab, bz.		
		SSL traffic control - Support SSL protocol application identification and control, including Facebook, Twitter, Youtube, Google search, Dropbox, Skype, Facebook messenger, Line, Telegram, Whatsapp and HTTPS based website from both PC and smart phone.		
		Proxy control - Must support anti-proxy function, support proxy tools identification and control such as FreeGate, Ultrasurf, Psiphon, TOR, FreeVPN, Green VPN, Opera Turbo, TunaProxy, Wayonline, Zenmate, AdNet, VPN123, secure vpn.		
		<i>SaaS application management</i>		
		Support SaaS management in one box.		
		Support account based on control, block personal account and allow enterprise account login.		
		Support safe search feature of Google, Youtube, Bing.		
		Support control over the channel of YouTube, like block Movie allow self-created channel.		
		Support allow download and block upload of the SaaS applications, like Google drive, OneDrive etc.		
		<b>4. Bandwidth Management</b>		
		<b>▪ BM policy</b>		
		Must support guarantee and limit bandwidth management.		
		Support at least 1000 policy.		
		Support at least 7 sub channels for BM policy.		
		BM objects - Must support BM base on application types, website types, file types, users, schedules, destination IP, end point types (PC, mobile phone).		
		Dynamic bandwidth management - Support Dynamic bandwidth management, support average allocation/predefined bandwidth allocation among users in a single traffic pipe.		
		Advanced P2P control - Support precise identification and manage known, variant, encrypted and unknown P2P behaviours. Support application at least Xunlei P2P, BT, eMule, Ares, BitTorrent sync, P2P-NAT, P2P Behavior.		
		Virtual line - Support establish virtual line in a physical port to enable advanced and accurate control.		
		Multiplexing and intelligent routing - Provide link load balancing in router mode.		
		International bandwidth control - Support with precise identify and manage international bandwidth. Make overseas traffic visible. Manage regional and overseas traffic respectively. Control overseas traffic.		
		<b>TRAFFIC IDENTIFICATION AND CATEGORIZATION</b>		
		On-disk URL database		
		Support local URL database.		
		Support at least ten million of URL records.		
		Support sub categories at least: pornographic, gambling, games, illegal drugs, financial, education, counteraction & other illegalities.		
		Support administrator self-defined URL groups.		
		Application database		
		Must support more than 2500 app rules, support cloud, web and mobile application category and must support self-define app rule.		
		Must support application database update in every 2 weeks.		
		Intelligent identification rules - Support identify traffic intelligently through dynamic flow characteristics analysis such as P2P, Proxy tools, SSL.		
		File type identification - Must support control HTTP, FTP upload and download activity based on file type such as docx, xlsx, pptx, txt, rar, bat, exe, pdf, zip, rar, gz, bz2, Z, tgz, tbz, 7z, cab, bz.		

		Traffic visualization		
		Support visualization of the bandwidth channels including the sub-channels.		
		Support search based on the user or IP to identify which channel the user is utilizing bandwidth.		
		<b>5. Report Center</b>		
		Report objects - Support logs search base on time, IP address, endpoint device, application flow, action.		
		Traffic ranking - Support application traffic ranking, URL category traffic ranking, URL traffic ranking, application duration ranking, URL category traffic ranking, URL traffic ranking, file upload ranking, IM ranking, Email and microblog ranking, term search ranking, endpoint device ranking.		
		Traffic trend - Support application access trend, URL category access trend, TOP talks of URL trend, endpoint access trend.		
		Real-time report - Support Real-time monitor of CPU / hard disk / traffic / connection / session status, online user information, traffic ranking, connection ranking; real-time utilization visibility of bandwidth channels.		
		Content log - Support Content log including IM chat (Gtalk, Skype, Yahoo! Messenger); SMTP and Web mail content and attachment (Gmail, Yahoo, exchange), keyword search (Google, Bing).		
		Customizable risk report - Support customize report base on traffic, online duration, Internet activities, URL category, endpoint.		
		Report format - Support report file format CSV, PDF and able to integrate with external storage with specific data format for advanced use;		
		Report center storage - Internal (Built-in) report center and external report center. There is no system limitation for data storage.		
		API interface - Must support API interface for data export to 3rd party system.		
		<b>6. Control Tools for Management</b>		
		Notification (advertisement redirect) - Must support redirect user URL request to specific page, with configuration of authentication.		
		Flow/duration control - Must support flow quota base on daily and monthly, support concurrent session quota per user.		
		Hierarchical administration - Must support hierarchical administrator privileges. Functionality of different modules can be assigned to different administrators as needed, via a hierarchical management model; Administration of different functions and modules can be delegated to different administrative groups.		
		Endpoint device management		
		Must support management based on the endpoint device OS.		
		Identify the type of endpoints and manage the endpoints.		
		Support detected endpoint for access control policy based on endpoint type i.e mobile device, pc, dumb endpoint, medical equipment and custom device.		
		Connection sharing management		
		Must support connection sharing management.		
		Limit the proxy user accessing the internet.		
		<b>7. Network Deployment</b>		
		Security modules - Must support built-in stateful Firewall; Built-in IPsec VPN; Gateway Anti-virus option.		
		Deployment		
		Support flexible deployment mode at least Route, Bridge, Double bridge, Bypass, Single-arm mode.		
		Support link load balancing.		
		Support maximum32 bridges.		
		Support high availability active-standby and active-active mode.		
		IPv6 - Must support IPv6, include authentication, application, bandwidth management, content audit and report.		
		Bypass Mode - Must support hardware bypass.		
		Network Management Protocol - Must support SNMP, Syslog		
		<b>8. Gateway Management</b>		
		Management portal - Management portal must be encrypted using SSL and devices can be managed using SSH commands.		
		Role based management - Must support privilege management. Different administrators can be assigned different management permissions by user group.		
		Alarm Management - Support variety of event alarm, support alarm by sending email.		
		Troubleshooting - A GUI-based troubleshooting tool is provided for administrators to locate faults such as policy errors.		
		<b>9. IPSec VPN Management and Proxy Tools Block</b>		
		Standard IPSec VPN - Support standard ipsec vpn connect with third-party device. Authentication algorithm: MD5/SHA-1, Encryption algorithm: DES/3DES/AES128 Hash:MD5/SHA.		



		Proxy Avoidance Management		
		Support multiple management of anti-proxy.		
		Identify the users who are using proxy tools surf Internet, Block user to login proxy tools, Alert users who are using the proxy tools, Block the download link of proxy tools.		
		Blocking Proxy Avoidance Capability - Must support anti-proxy function, support proxy tools block such as FreeGate, Ultrasurf, Psiphon, TOR, FreeVPN, Green VPN, Opera Turbo, TunaProxy, Waysonline, Zenmate, AdNet, VPN123, secure vpn.		
		Blocking Log - Support proxy tools blocking log.		
		<b>10. SSL Decryption</b>		
		• SSL Decryption Method		
		Support SSL decryption at gateway level.		
		Support SSL decryption at client level.		
		Support TLS 1.3		
		Support deployment with certification distribution into client endpoints with self-signed or own private certificate.		
		<b>11. Asset Management</b>		
		Endpoint IP Management		
		Support asset inventory		
		Check connected, offline and vacant endpoint based on IP address pool		
		Allow to define offline status based on customized of inactive days		
		Support export into csv file for reference purpose		
		Endpoint Discovery		
		Support detection on unknown & rogue endpoint		
		Support auto delete of endpoint over a predefined undiscoverable durations		
		Support endpoint discovery and scanning based on ip address, ip address range and ip address subnet		
		Support SNMP v1 and v2		
		Endpoint Classification		
		Detect types of endpoint, user, group, operating system, open port and etc		
		Support endpoint device classification based on mobile device, pc, dumb endpoint, medical equipment and custom device		
		<b>12. Technical Specificatons</b>		
<b>1 unit</b>		<b>Site 1 : BTC Taguig Office - Appliance based</b>		
		• Profile: 1U		
		• RAM : at least 4Gb or higher		
		• Storage: at least 1TB or higher		
		• Layer 7 Throughput : 1Gbps		
		• Concurrent user: at least 5000		
		• At least 6x10/100/1000 Base-T interface ports and 2 SFP ports		
		• At least 2 pair of Bypass (copper) network interface		
		• At least 2 USB ports		
		• Software, In-cloud URL database, include the maintenance and hardware replacement		
<b>2 units</b>		<b>Site 2 : Onwest and PMO - Appliance based</b>		
		• Profile: 1U		
		• RAM : at least 4Gb or higher		
		• Storage: at least 1TB or higher		
		• Layer 7 Throughput : 400Mbps		
		• Concurrent user: at least 2000		
		• At least 6x10/100/1000 Base-T interface ports and 2 SFP ports		
		• At least 2 pair of Bypass (copper) network interface		
		• At least 2 USB ports		
		• Software, In-cloud URL database, include the maintenance and hardware replacement		
		<b>13. Bidder's Qualifications</b>		
		• The vendor which the proposed solution must be certified with CMMI L5.		
		• Vendor must have direct local support in the Philippines.		
		<b>14. Warranty and Support</b>		
		• One (1) year - parts and services		
		• Support - 8x5 NBD		
		<b>Other Requirements:</b>		

			<ul style="list-style-type: none"> <li>• All specifications are minimum requirements. Proponents may propose equivalent or higher specifications.</li> </ul>		
			<ul style="list-style-type: none"> <li>• The supplier must propose globally-known brands.</li> </ul>		
			<ul style="list-style-type: none"> <li>• Full replacement of defective unit/s should be 45 working days from the delivery of the items. If a full replacement is not yet possible, a service unit shall be provided by the supplier within 48 hours from receipt of notice of the defective unit.</li> </ul>		
			<ul style="list-style-type: none"> <li>• The supplier shall supply the appliance where the availability of parts, replacement batteries, and power supplies is guaranteed for at least 5 years after the end of production.</li> </ul>		
			<ul style="list-style-type: none"> <li>• The supplier shall supply the products in recyclable packages and shall provide a packaging take-back service.</li> </ul>		
			<ul style="list-style-type: none"> <li>• The supplier must be an authorized reseller of the products/units being offered. Please present any proof</li> </ul>		
			<ul style="list-style-type: none"> <li>• Certification from the Product Manufacturer or Reseller that the products/units being offered are all brand new and original and not refurbished.</li> </ul>		
			<ul style="list-style-type: none"> <li>• The supplier must provide a Warranty Certificate in favor of BCDA for the parts and services of the units.</li> </ul>		
			<ul style="list-style-type: none"> <li>• On-site support shall be provided and addressed by suppliers on the following working day upon determination of its need after the conduct of initial assessment or trouble shootings by the supplier/manufacturing engineer.</li> </ul>		
			<ul style="list-style-type: none"> <li>• The obligation for the warranty shall be covered by Retention money in an amount equivalent to at least one percent (1%). The said amounts shall only be released after the lapse of the warranty period indicated per item of the TOR.</li> </ul>		
<b>Lot 3</b>			<b>Software</b>		
	<b>3 lics.</b>	<b>1.</b>	<b>Architectural, Engineering and Construction Collection (AECC) - Additional licenses</b>		
			<b>Features:</b>		
			<ul style="list-style-type: none"> <li>• The AEC Collection provides BIM and CAD software, including Revit, Civil 3D, and AutoCAD, supported by a cloud-based common data environment, enabling designers, engineers, and contractors to efficiently deliver high-quality building and infrastructure projects. With the AEC Collection, teams can create in new ways, explore what's possible, and build with confidence.</li> </ul>		
			<ul style="list-style-type: none"> <li>• Products in the AEC Collection include Revit, AutoCAD, Civil 3D, InfraWorks, Navisworks Manage, Autodesk Docs, Advance Steel, ReCap Pro, 3ds Max, Dynamo Studio, Fabrication CADmep, FormIt, Insight, Robot Structural Analysis Professional, Structural Bridge Design, Vehicle Tracking, Autodesk Drive, and Autodesk Rendering.</li> </ul>		
			<b>Subscription/Support/Training:</b>		
			<ul style="list-style-type: none"> <li>• One (1) year subscription license</li> </ul>		
			<ul style="list-style-type: none"> <li>• Commercially available with local support (on-call or online)</li> </ul>		
			<ul style="list-style-type: none"> <li>• With knowledge transfer training</li> </ul>		
	<b>2 lics.</b>	<b>2.</b>	<b>3D Rendering Software (Lumion - Additional)</b>		
			<b>Features:</b>		
			<ul style="list-style-type: none"> <li>• Pro Edition</li> </ul>		
			<ul style="list-style-type: none"> <li>• With volumetric light effect for spotlights that cast a visible beam of light throughout a scene, adding atmosphere and dimension for a beautiful, cinematic ambiance.</li> </ul>		
			<ul style="list-style-type: none"> <li>• With volumetric omni lights. To show subtle rays coming from fill flights or other non-directional sources of light.</li> </ul>		
			<ul style="list-style-type: none"> <li>• With surface decals. Transforms walls and other surfaces with imperfections and wall art, including watermarks, exposed brick, moss, chalk drawings, paint markings, road markings, potholes and much more.</li> </ul>		
			<ul style="list-style-type: none"> <li>• Import custom decals</li> </ul>		
			<ul style="list-style-type: none"> <li>• With animated phasing. Shows the process behind the design's development or construction through the power of animation.</li> </ul>		
			<ul style="list-style-type: none"> <li>• With Orthographic views. Embed life, color and texture into all of technical renderings, and make lively plans, sections, elevations.</li> </ul>		
			<ul style="list-style-type: none"> <li>• With Volumetric fire. Cast a feeling of coziness and warmth to your interior and exterior renders with volumetric fire objects.</li> </ul>		
			<ul style="list-style-type: none"> <li>• With Rain streaks. Make raindrops soothingly glide down glass surfaces, a gripping detail that would otherwise take hours to get right.</li> </ul>		
			<ul style="list-style-type: none"> <li>• With OpenStreetMaps (and height and satellite maps)</li> </ul>		
			<ul style="list-style-type: none"> <li>• With Full content library</li> </ul>		
			<ul style="list-style-type: none"> <li>• Styles: Custom, Realistic, Interior, Dawn, Daytime, Night, Overcast, Color Sketch, and Watercolor;</li> </ul>		
			<ul style="list-style-type: none"> <li>• With LiveSync that creates a seamless, real-time rendering connection between the leading CAD programs;</li> </ul>		

		<ul style="list-style-type: none"> <li>• With Fine-detail nature that enhances the renders with the most detail-rich 3D tree and plant models in the content library.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Real Skies that design a clear blue morning, a stormy afternoon or an unforgettable sunset.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Displacement mapping. Shows the relief and detail on surfaces with custom or built-in displacement maps.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Photo Matching</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Sky Light. Heighten realism and atmosphere with daylight simulation technology.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Lights and shadows. Illuminate a space with light and its story will unfold from the shadows.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Customizable 3D grasses. Turn the green spaces in your renders into beautiful, lifelike landscapes.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Paint placement. Place hundreds of nature objects in your project, as if painting on a piece of paper.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Atmospheric rain and snow. Communicate the feeling of your designs with atmospheric rain and snow.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Hand-drawn outline effect. Clearly communicate the form and shape of your building design.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Area lights and line lights. Easily create beautiful lighting arrangements that fill spaces with life.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Model and material variation. Compare multiple options, balance a range of concept options.</li> </ul>		
		<ul style="list-style-type: none"> <li>• With Foliage for materials. Show the surfaces of your design with leafy, realistic foliage.</li> </ul>		
		<b>Subscription/Support/Training:</b>		
		<ul style="list-style-type: none"> <li>• One (1) year subscription license</li> </ul>		
		<ul style="list-style-type: none"> <li>• Commercially available with local support (on-call or online)</li> </ul>		
		<ul style="list-style-type: none"> <li>• With knowledge transfer training</li> </ul>		
<b>1 lic.</b>	<b>3.</b>	<b>Photogrammetry 4D Software</b>		
		<b>Features:</b>		
		<b>Inputs</b>		
		<ul style="list-style-type: none"> <li>• Aerial (nadir and oblique) and terrestrial imagery support</li> </ul>		
		<ul style="list-style-type: none"> <li>• Any camera (compact, SLR, multi-spectral, GoPro, Tetracam, large format)</li> </ul>		
		<ul style="list-style-type: none"> <li>• Any lens, including Fisheye</li> </ul>		
		<ul style="list-style-type: none"> <li>• Multi-camera support for the same project</li> </ul>		
		<ul style="list-style-type: none"> <li>• Standard camera rig support</li> </ul>		
		<ul style="list-style-type: none"> <li>• Multiple file types (.jpg, single band or multi band .tiff)</li> </ul>		
		<ul style="list-style-type: none"> <li>• Ground Control Point edit and import (.csv, .txt)</li> </ul>		
		<ul style="list-style-type: none"> <li>• Local, global and arbitrary coordinate reference system support in meters and feet</li> </ul>		
		<ul style="list-style-type: none"> <li>• Camera position and exterior orientation (omega, phi, kappa) support</li> </ul>		
		<ul style="list-style-type: none"> <li>• External point cloud import</li> </ul>		
		<b>Processing</b>		
		<ul style="list-style-type: none"> <li>• Rapid Check processing mode</li> </ul>		
		<ul style="list-style-type: none"> <li>• Rapid Check Quality report</li> </ul>		
		<ul style="list-style-type: none"> <li>• Camera self-calibration</li> </ul>		
		<ul style="list-style-type: none"> <li>• Automatic Aerial Triangulation (AAT) and Bundle Block Adjustment (BBA)</li> </ul>		
		<ul style="list-style-type: none"> <li>• Automatic point cloud densification (and optional Semi-Global Matching)</li> </ul>		
		<ul style="list-style-type: none"> <li>• Automatic point cloud classification and DTM extraction (BETA)</li> </ul>		
		<ul style="list-style-type: none"> <li>• Point cloud filtering and smoothing</li> </ul>		
		<ul style="list-style-type: none"> <li>• Automatic brightness and color correction</li> </ul>		
		<ul style="list-style-type: none"> <li>• Quality Report</li> </ul>		
		<ul style="list-style-type: none"> <li>• GPU support</li> </ul>		
		<ul style="list-style-type: none"> <li>• Project area definition</li> </ul>		
		<ul style="list-style-type: none"> <li>• Project splitting</li> </ul>		
		<b>Raycloud Editor</b>		
		<ul style="list-style-type: none"> <li>• Project viewing</li> </ul>		
		<ul style="list-style-type: none"> <li>• Manual tie point editing</li> </ul>		
		<ul style="list-style-type: none"> <li>• Project reoptimization</li> </ul>		
		<ul style="list-style-type: none"> <li>• Image annotation</li> </ul>		
		<ul style="list-style-type: none"> <li>• Point cloud editing</li> </ul>		
		<ul style="list-style-type: none"> <li>• Polyline object creation</li> </ul>		
		<ul style="list-style-type: none"> <li>• Surface object creation</li> </ul>		
		<ul style="list-style-type: none"> <li>• Volume object creation (volume measurement)</li> </ul>		
		<ul style="list-style-type: none"> <li>• Digitization tools / vector object editing</li> </ul>		
		<ul style="list-style-type: none"> <li>• Fly-through animation</li> </ul>		

		<b><i>Index Calculator</i></b>		
		• Radiometric adjustment interface		
		• Reflectance map editing		
		• Automated index generation (NDVI)		
		• Draw field bounds and compute index per crop variety I		
		• Formula editing		
		• Automatic index segmentation		
		• Application map annotation		
		• Export the application map as shapefile (SHP)		
		<b><i>Mosaic Editor</i></b>		
		• Seamline editing		
		• Planar / ortho projection selection		
		• Mosaic color / brightness editing		
		<b><i>Output results</i></b>		
		• 2D output results		
		• Geo-referenced orthomosaics in GeoTIFF output format		
		• Google tiles export in KML and HTML output format		
		• Mapbox tiles in MB TILES format		
		• Index maps (DVI, NDVI, SAVI, etc.) in GeoTIFF and SHP format		
		• 3D output results		
		• Geo-referenced DSMs and DTMs in GeoTIFF format		
		• Full 3D textured mesh in OBJ, PLY and Zipped OBJ format		
		• Point cloud in LAS, LAZ, XYZ and PLY output format		
		• Contour lines in SHP, DXF and PDF format		
		• User-defined vector objects in DXF, SHP, DGN and KML format		
		• 3D PDF for easy sharing of 3D mesh		
		• Fly-through animations and flightpaths		
		• Point cloud Fly-through animation in MP4 and AVI format		
		• Fly-through waypoints and path in CSV format		
		• Optimized camera position, external orientation and internal parameters, undistorted images		
		<b><i>Subscription/Support/Training:</i></b>		
		• One (1) year subscription license		
		• Technical support (on-call or online)		
		• With knowledge transfer training		
		<b><i>Other Conditions:</i></b>		
		• The supplier must be an authorized service partner and reseller of the products/units being offered. Please present any proof (Distributorship Cert., MAF, etc.).		

***Bidder's Authorized Representative:***

Name: \_\_\_\_\_

Legal capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_

**“ANNEX B”**

**ANNEX "B"**

**Sample Forms: Goods and Services for Ongoing and Completed Contracts**

SF-G&S-19A

**Statement of All Ongoing Government and Private Contracts  
Including Contracts Awarded but not yet Started**

Business Name : \_\_\_\_\_  
Business Address : \_\_\_\_\_

Name of the Contract	Date of the Contract	Contract Duration	Owner's Name and Address	Kinds of Goods	Amount of Contract	Value of Outstanding Contracts	Date of Delivery
<u>Government Contracts:</u>							
1.							
2.							
<u>Private Contracts:</u>							
1.							
2.							
<b>Total Amount:</b>							

\*Continue in a separate sheet if necessary..

Submitted by : \_\_\_\_\_  
Signature over Printed Name of Authorized Representative

Date : \_\_\_\_\_

**Note:**

- If there is no ongoing contract including those awarded but not yet started, state none or equivalent term.
- The total amount of the ongoing and awarded but not yet started contracts should be consistent with those used in the Net Financial Contracting Capacity (NFCC).]