



ASTI-FM 03-11  
REV 0/2 APR 2018

**DOST-ASTI Bids and Awards Committee  
Invitation to Bid (Public Bidding)**

ITB No:	21-08-3526-M2		September 28, 2021
PR No:	ROAMER-21-07-11710 (RDD) GAA-21-07-11802 (KMD) GAA-21-08-11891 (FAD) GAA-21-08-11821 (SSED)	Date:	July 07, 2021 September 22, 2021 August 12, 2021 August 02, 2021
Source of Funds:		GAA and GIA	
Total ABC:		Php 2,203,000.00	
Time, Date & Venue of Pre-bid Conference:		October 07, 2021, 9:00 AM at Via videoconferencing	
Time and Date of Submission of Bids:		October 19, 2021, 10:00 AM	
Time, Date & Venue of Opening Bids:		October 19, 2021, 10:30 AM at DOST-ASTI and Videoconferencing	
Date of availability of Complete Set of Documents:		September 29, 2021	
Deadline of Potential Bidder's Clarifications:		October 9, 2021	
Deadline of ASTI's Supplemental Bid Bulletin:		October 12, 2021	
Delivery Schedule:			

The Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), hereby invites all interested bidders to submit their bids for the item(s) listed below. Guidelines regarding the format, eligibility, technical and financial documents needed are described in the Instruction to Bidders of the Philippine Bidding Documents.

Bidding will be conducted through open competitive bidding procedures using a non discretionary "pass/fail" criterion as specified in the 2016 R-IRR of RA 9184.

A complete set of Bidding Documents may be purchased by interested bidders upon payment of a fee for the Bidding Documents. It is also downloadable for free of charge at DOST-ASTI's website - [www.asti.dost.gov.ph](http://www.asti.dost.gov.ph)

For further inquiries, contact ASTI's BAC Secretariat via email at [bac-sec@asti.dost.gov.ph](mailto:bac-sec@asti.dost.gov.ph). Interested bidders may also call the number (632)-426-7423 and look for ASTI's BAC Secretariat.

Respectfully,

**GERWIN P. GUBA**

*BAC Chairman*

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<b>MOBILE DEVELOPMENT WORKSTATION</b> <b>For RDD under PR No. ROAMER-21-07-11710</b> <b>Charged to ROAMER Project</b> 1.Quantity: Seven (7) Units 2.Technical Specifications: 2.1.The specifications indicated here are of minimum requirements, unless otherwise specified. 2.2.The laptop computer must absolutely carry the following components: 2.2.1. CPU: Ryzen 9 5900HS 3.1 GHz (16M Cache, up to 4.5 GHz) or better (latest generation)  2.2.2. GPU: NVIDIA RTX 3060 6GB GDDR6 with Boost up to 1382MHz at 60W (80W with Dynamic Boost) or better 2.2.3. RAM: At least 16GB DDR4-3200 SO-DIMM (Upgradable to 32GB) 2.2.4. Storage: At least 512GB M.2 NVMe™ PCIe® 3.0 SSD 2.2.5. Display: At least 14-inch QHD (2560 x 1440) 16:9 anti-glare display, DCI-P3: 100%, Refresh Rate: 120Hz, IPS-level, Pantone Validated: Yes 2.2.6. I/O Ports: 2.2.6.1.1x 3.5mm Combo Audio Jack	7	Unit	100,000.00	700,000.00

ASTI Bldg., U.P. Technology Park Complex, C.P. Garcia Ave., Diliman, Quezon City, Philippines 1101

• Website: [www.asti.dost.gov.ph](http://www.asti.dost.gov.ph) • E-mail: [info@asti.dost.gov.ph](mailto:info@asti.dost.gov.ph) • Tel. No.s: +632 927-2541, +632 927-3502, +632 426-9759, +632 426-9760  
• Fax No.: +632 925-8598

2.2.6.2.1x HDMI 2.0b

2.2.6.3.1x USB 3.2 Gen 2 Type-C

2.2.6.4.2x USB 3.2 Gen 1 Type-A

2.2.6.5.1x USB 3.2 Gen 2 Type-C support DisplayPort / power delivery/ G-SYNC

2.2.7. Keyboard: Backlit Chiclet Keyboard

2.2.8. Camera: FHD 1080P@60FPS external camera

2.2.9. Audio:

2.2.9.1.1.Audio by Dolby Atmos or equivalent

2.2.9.1.2.AI mic noise-canceling

2.2.9.1.3.Built-in array microphone

2.2.9.1.4.2x 0.7W tweeter or better

2.2.9.1.5.2x 2.5W speaker with Smart Amp Technology or better

2.2.10.Network and Communication: Wi-Fi 6(802.11ax) + Bluetooth 5.1 (Dual band) 2\*2

2.2.11.Operating System: Windows 10 (Free upgrade to Windows 11, when available)

2.2.12.Device Lighting: Customizable lighting (AniMe Matrix) or equivalent

2.2.13.Battery: 76WHrs, 4S1P, 4-cell Li-ion

2.2.14.Power Supply: ø6.0, 180W AC Adapter, Output: 20V DC, 9A, 180W

2.2.15.Input: 100~240V AC, 50/60Hz universal TYPE-C, 100W AC Adapter

2.2.16.Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal

2.2.17.Weight: 1.70 Kg (3.75 lbs) or lighter

2.2.18.Dimensions: At most 32.4 x 22.2 x 1.99 ~ 1.99 cm (12.76" x 8.74" x 0.78" ~ 0.78")

2.2.19.Security:

2.2.19.1.BIOS Administrator Password and User Password Protection

2.2.19.2.Kensington Lock

2.2.19.3.FingerPrint: YES

3.Accessories

3.1.Must include the following:

3.1.1. Sleeve

3.1.2. FHD 1080P@60FPS external camera

3.1.3. Wired Optical Mouse

3.1.4. TYPE-C, 100W AC Adapter, Output: 20V DC, 5A, 100W, Input: 100~240V AC 50/60Hz universal

4.Technical Support Service

4.1.Availability times

4.1.1.Technical support service must be available 8 hours per day, Monday to Friday (including holidays), during business hours, 9AM-5PM Philippines Standard Time (UTC+8)

4.2.Service Request

4.2.1.End-user must be able to request technical support by phone, email or through a website

4.2.2.Onsite technical support may be requested for special cases or critical severity issues

4.3.Response Times

4.3.1. 4 business hours, and updates every 3 business days for critical severity issues that impact a high number of staff

4.3.2. 8 business hours, and updates every 5 business days for high severity issues that incur serious degradation to application performance or functionality

4.3.3. 24 business hours, and updates by request, for medium severity issues that moderately impact user operations

4.3.4. 48 business hours, and updates by request, for low priority issues such as inquiries or issues with limited impact to user operations

5.Terms of delivery, payment, and warranty

5.1.The laptop computer must be shipped with 60-calendar day return for advanced replacement on DOA parts and components, and 1-year limited warranty that covers defects in materials and workmanship

	<p>5.2.Price inclusive of all government taxes, delivery fees and duties</p> <p>5.3.Payment to be processed upon successful and complete delivery</p> <p>5.4.Delivery must be on or before 29 December 2021</p>				
2	<p><b>LAPTOPS</b>  <b>For Knowledge Management Division under PR NO. GAA-21-07-11802</b></p> <p>1. Quantity: 2 units</p> <p>2. Technical Specifications</p> <p>2.1. The specifications indicated herein are of minimum requirements unless otherwise stated.</p> <p>2.2. Each laptop computer unit must carry the following components:</p> <p>2.2.1. One (1) Intel Core i5-1135G7 processor or equivalent technology (4-core/8-threads, 2.4 GHz base frequency, 4.2 GHz max frequency, and 8MB cache)</p> <p>2.2.2. One (1) 8GB DDR4-3200Mhz memory module (soldered) expandable up to 32GB through a DIMM slot</p> <p>2.2.3. One (1) 512 GB, M.2 2280 PCIe x4 NVMe Opal2 solid-state disk drive (SSD) expandable up to 2TB</p> <p>2.2.4. 14" FHD (1920x1080) IPS 300nits Anti-glare LED monitor</p> <p>2.2.5. Windows 10 Pro 64-bit operating system</p> <p>2.2.6. Intel UHD graphics processor or equivalent</p> <p>2.2.7. Hybrid Infrared (IR) camera for facial scanning and HD720p camera with privacy shutter</p> <p>2.2.8. Intel AX210 2x2 WiFi6 802.11 AX wireless LAN adapter and Bluetooth (BT) 5.2 adapter for wireless connectivity</p> <p>2.2.9. Ports/Slots:</p> <p>2.2.9.1. One (1) side docking connector for mechanical docking</p> <p>2.2.9.2. One (1) Ethernet extension connector (RJ45)</p> <p>2.2.9.3. Two (2) USB 3.2 Gen 1 with one (1) Always On or any equivalent technology</p> <p>2.2.9.4. One (1) headphone / microphone combo jack (3.5mm)</p> <p>2.2.9.5. One (1) HDMI 2.0</p> <p>2.2.9.6. Two (2) USB-C with one (1) Thunderbolt™ 3 compatible (supports Power Delivery and DisplayPort)</p> <p>2.2.9.7. Kensington slot</p> <p>2.2.10. Dolby Audio speaker system or equivalent</p> <p>2.2.11. Dual far-field microphones</p> <p>2.2.12. Spill-resistant keyboard with white LED lighting backlight and call-control keys (F9-F11)</p> <p>2.2.13. USB-C 65W AC adapter that supports Rapid Charge or any equivalent technology</p> <p>2.2.14. Match-on-chip touch fingerprint reader</p> <p>2.2.15. One (1) 3-cell 50WH battery</p> <p>2.3. Accessories:</p> <p>2.3.1. One (1) carrying case</p> <p>3. Terms of delivery, payment, and warranty</p> <p>3.1. Technical support service must be available 9 hours per day, Monday to Friday (including holidays), during business hours, 9-6PM Philippines Standard Time (UTC+8) and must respond:</p> <p>3.1.1. 4 business hours, and updates every 3 business days for critical severity issues that impact a high number of staff</p> <p>3.1.2. 8 business hours, and updates every 5 business days for high severity issues that incur serious degradation to application performance or functionality</p> <p>3.1.3. 24 business hours, and updates by request for medium severity issues that moderately impact user operations</p> <p>3.1.4. 48 business hours, and updates by request for low priority issues such as inquiries or issues with limited impact to user operations</p> <p>3.2. End-user must be able to request technical support by phone or email</p> <p>3.3. Onsite technical support may be requested for special cases or critical severity issues</p>	2	Unit	92,000.00	184,000.00

<p>3.4. The laptop unit must be shipped with 30-calendar day return for advanced replacement on DOA parts and components, and 1-year limited warranty that covers defects in materials and workmanship</p> <p>Note:</p> <ol style="list-style-type: none"> <li>1. Price inclusive of all government fees, taxes, and duties</li> <li>2. Payment to be processed upon successful and complete delivery of items</li> <li>3. Delivery: not later than December 31, 2021</li> </ol>				
<p><b>3 LAPTOP</b></p> <p><b>For Finance and Administrative Division (FAD) under PR No. GAA-21-08-11891</b></p> <ol style="list-style-type: none"> <li>1. Quantity: One (1) Unit</li> <li>2. Technical Specifications: <ol style="list-style-type: none"> <li>2.1. The specifications indicated here are of minimum requirements, unless otherwise specified.</li> <li>2.2. The laptop computer must absolutely carry the following components: <ol style="list-style-type: none"> <li>2.2.1. One (1) 2.0GHz quad-core 10th-generation Intel Core i5 processor that can boost up to 3.8Ghz, with 6MB shared L3 cache</li> <li>2.2.2. 13-inch (diagonal) LED-backlit display with IPS technology and supports up to 2560-by-1600 native resolution at 227 pixels per inch with support for millions of colors and: <ol style="list-style-type: none"> <li>2.2.2.1. 1680-by-1050, 1440-by-900, and 1024-by-640 scaled resolutions</li> <li>2.2.2.2. 500 nits brightness and Display P3 wide color gamut</li> <li>2.2.2.3. lighting feature that automatically adjusts brightness and color based on the user's surroundings.</li> </ol> </li> <li>2.2.3. One (1) 1TB solid-state disk for storage</li> <li>2.2.4. Configured with 16GB of 3733MHz LPDDR4X onboard memory</li> <li>2.2.5. Intel Iris Plus Graphics integrated graphics adapter that simultaneously supports full native resolution on the built-in display at millions of colors and: <ol style="list-style-type: none"> <li>2.2.5.1. One external 6K display with 6016-by-3384 resolution at 60Hz at over a billion colors, or</li> <li>2.2.5.2. One external 5K display with 5120-by-2880 resolution at 60Hz at over a billion colors, or</li> <li>2.2.5.3. Up to two external 4K displays with 4096-by-2304 resolution at 60Hz at millions of colors</li> </ol> </li> <li>2.2.6. Four (4) USB-C ports with support for: <ol style="list-style-type: none"> <li>2.2.6.1. Charging</li> <li>2.2.6.2. DisplayPort for external monitors</li> <li>2.2.6.3. Thunderbolt 3 (or equivalent technology) for high-speed data transfers up to 40Gb/s</li> <li>2.2.6.4. USB 3.1 Gen 2 for medium-speed data transfers up to 10Gb/s</li> </ol> </li> <li>2.2.7. Backlit keyboard with 4-arrow key inverted-T arrangement and touch-based OLED bar as alternative to function keys</li> <li>2.2.8. Touch ID (or equivalent technology) for electronic fingerprint recognition sensor and ambient light sensor</li> <li>2.2.9. Trackpad with (Force Touch or equivalent technology) for multi-touch gesture support and pressure-sensitive drawings</li> <li>2.2.10. 802.11ac WiFi and Bluetooth 5.0 network adapters</li> <li>2.2.11. 720p HD camera, 3.5mm headphone jack, three-mic array with directional beamforming, stereo speakers with high dynamic range and wide stereo sound and support for Dolby Atmos playback for multimedia applications</li> <li>2.2.12. Built-in 58Wh lithium-polymer battery</li> <li>2.2.13. 61W USB-C power adapter with 1-meter USB-C charge cable</li> <li>2.2.14. Installed with an operating system that features floating dock application for easy app navigation</li> </ol> </li> <li>3. Terms of delivery, payment, and warranty</li> </ol> </li></ol>	1	Unit	120,000.00	120,000.00

<p>3.1. The laptop computer must be shipped with 30-calendar day return for advanced replacement on DOA parts and components, and 1-year limited warranty that covers defects in materials and workmanship</p> <p>3.2. Price inclusive of all government fees, taxes, and duties</p> <p>3.3. Payment to be processed upon successful and complete delivery</p> <p>3.4. Delivery must be on or before 29 December 2021</p>				
<p><b>4 LAPTOP</b>  <b>For FAD under PR No. GAA-21-08-11891</b></p> <p>1.Quantity: 7 sets</p> <p>2.Technical Specifications</p> <p>2.1.The specifications indicated herein are of minimum requirements unless otherwise stated.</p> <p>2.2.Each laptop computer unit must carry the following components:</p> <p>2.2.1. one (1) Intel Core i5-1135G7 processor or equivalent technology (4-core/8-threads, 2.4 GHz base frequency, 4.2 GHz max frequency, and 8MB cache)</p> <p>2.2.2.One (1) 8GB DDR4-3200Mhz memory module (soldered) expandable up to 32GB through a DIMM slot</p> <p>2.2.3.One (1) 512 GB, M.2 2280 PCIe x4 NVMe Opal2 solid-state disk drive (SSD) expandable up to 2TB</p> <p>2.2.4.14" FHD (1920x1080) IPS 300nits Anti-glare LED monitor</p> <p>2.2.5.Windows 10 Pro 64-bit operating system</p> <p>2.2.6.Intel UHD graphics processor or equivalent</p> <p>2.2.7.Hybrid Infrared (IR) camera for facial scanning and HD720p camera with privacy shutter</p> <p>2.2.8.Intel AX210 2x2 WiFi6 802.11 AX wireless LAN adapter and Bluetooth (BT) 5.2 adapter for wireless connectivity</p> <p>2.2.9.Ports/Slots:</p> <p>2.2.9.1.One (1) side docking connector for mechanical docking</p> <p>2.2.9.2.One (1) Ethernet extension connector (RJ45)</p> <p>2.2.9.3.Two (2) USB 3.2 Gen 1 with one (1) Always On or equivalent technology</p> <p>2.2.9.4.One (1) headphone / microphone combo jack (3.5mm)</p> <p>2.2.9.5.One (1) HDMI 2.0</p> <p>2.2.9.6.Two (2) USB-C with one (1) Thunderbolt™ 3 compatible (supports Power Delivery and DisplayPort)</p> <p>2.2.9.7. Kensington slot</p> <p>2.2.10.Dolby Audio speaker system or equivalent</p> <p>2.2.11.Dual far-field microphones</p> <p>2.2.12.Spill-resistant keyboard with white LED lighting backlight and call-control keys (F9-F11)</p> <p>2.2.13.USB-C 65W AC adapter that supports Rapid Charge or any equivalent technology</p> <p>2.2.14.Match-on-chip touch fingerprint reader</p> <p>2.2.15.One (1) 3-cell 50WH battery</p> <p>2.3.Accessories:</p> <p>2.3.1.One (1) carrying case</p> <p>3.Terms of delivery, payment, and warranty</p> <p>3.1.Technical support service must be available 9 hours per day, Monday to Friday (including holidays), during business hours, 9-6PM Philippines Standard Time (UTC+8) and must respond:</p> <p>3.1.1.4 business hours, and updates every 3 business days for critical severity issues that impact a high number of staff</p> <p>3.1.2.8 business hours, and updates every 5 business days for high severity issues that incur serious degradation to application performance or functionality</p> <p>3.1.3.24 business hours, and updates by request for medium severity issues that moderately impact user operations</p> <p>3.1.4.48 business hours, and updates by request for low priority issues such as inquiries or issues with limited impact to user operations</p> <p>3.2.End-user must be able to request technical support by phone or email</p>	7	Unit	92,000.00	644,000.00

	<p>3.3.Onsite technical support may be requested for special cases or critical severity issues</p> <p>3.4.The laptop unit must be shipped with 30-calendar day return for advanced replacement on DOA parts and components, and 1-year limited warranty that covers defects in materials and workmanship</p> <p>Note:</p> <p>1.Price inclusive of all government fees, taxes, and duties</p> <p>2.Payment to be processed upon successful and complete delivery of items</p> <p>3.Delivery: on or before 29 December 2021.</p>				
5	<p><b>MOBILE WORKSTATION</b>  <b>For Solutions and Services Engineering Division (SSED)</b>  <b>under PR No. GAA-21-08-11821</b></p> <p>1.0 Specifications:</p> <p>1.1 Operating System: Genuine Windows 10 PRO</p> <p>1.2 Processor: at least i7 1165G7 or higher</p> <p>1.3 Memory: at least 8GB DDR4 3200 SODIMM or higher + 8GB DDR4 3200Mhz supplied and installed</p> <p>1.4 Disk Space: 512GB PCIe NVMe SSD</p> <p>1.5 Video Card: Intel Iris Xe Graphics</p> <p>1.6 Display: 14", FHD, anti-glare, 250 nits</p> <p>1.7 Camera: 720p HD</p> <p>1.8 Audio: dual stereo speakers with 3 multi array microphone</p> <p>1.9 Keyboard: backlit, Spill Resistant</p> <p>1.10 Touch Interface: Touchpad with finger gesture support</p> <p>1.11 Ports</p> <p>1.11.1 2 x USB Type A</p> <p>1.11.2 2 x USB Type C</p> <p>1.11.3 HDMI 2.0</p> <p>1.11.4 Headphone / mic combo</p> <p>1.12 Battery: at least 53Wh (3 cell Li-ion)</p> <p>1.13 WLAN: at least Wi-Fi 6</p> <p>1.14 Bluetooth: at least Bluetooth 5.0</p> <p>2.0 Inclusions:</p> <p>2.1 1 unit of mobile workstation</p> <p>2.2 1-unit 45W AC Adapter</p> <p>2.3 Free 1 unit Backpack</p> <p>2.4 Free 1 unit 3.5mm Headset</p> <p>2.5 Free 1 unit Black Wireless Mouse</p> <p>2.6 Free 1 unit USB-C to RJ-45 Adapter</p> <p>3.0 Notes:</p> <p>3.1 The mobile workstation must be shipped with 30-calendar day return for advanced replacement on DOA parts and components, and 3-year limited warranty that covers defects in materials and workmanship.</p> <p>3.2 Warranty obligation: Five percent (5%).</p> <p>3.3 The goods or service must be delivered within forty-five to sixty (45-60) calendar days upon issuance of Notice to Proceed (NTP).</p> <p>3.4 The price of the bid must be inclusive of government tax.</p> <p>3.5 Payment upon full delivery.</p> <p>3.6 Charging: GAA - arQ 2.0</p>	5	Unit	88,000.00	440,000.00
6	<p><b>MOBILE WORKSTATION</b>  <b>For SSED under PR No. GAA-21-08-11821</b></p> <p>1.0 Specifications:</p> <p>1.1 Operating System: Genuine Windows 10 PRO</p> <p>1.2 Processor: at least Intel i5-1135G7 or higher</p> <p>1.3 Memory: at least 8GB DDR4 3200MHz or higher + 8GB DDR4 3200MHz supplied and installed</p> <p>1.4 Disk Space: at least 512GB SSD M.2 2280 NVME or higher</p> <p>1.5 Video Card: Nvidia Quadro T500 4GB or higher variant</p> <p>1.6 Display: 14", FHD, Anti-Glare, 400 Nits</p> <p>1.7 Camera: 720p HD with privacy shutter</p> <p>1.8 Audio: Built-in stereo speakers and Built-in Digital Microphone</p> <p>1.9 Keyboard: backlit, Spill Resistant</p> <p>1.10 Touch Interface: Touchpad with finger gesture support</p> <p>1.11 Ports</p> <p>1.11.1 2 x USB 3.2 Gen 2</p> <p>1.11.2 HDMI 2.0</p> <p>1.11.3 RJ-45</p> <p>1.11.4 MicroSD card reader</p>	1	Unit	115,000.00	115,000.00

<p>1.11.5 Headphone / mic combo  1.12 Battery: at least 50Wh (3 cell)  1.13 WLAN: at least Wi-Fi 6  1.14 Bluetooth: at least Bluetooth 5.0  1.15 Built Quality: Tested against MIL-SPEC Standard or equivalent  2.0 Inclusions:  2.1 1 unit of mobile workstation  2.2 1-unit 65W AC Adapter  2.3 Wireless Mouse  2.3.1 Specifications  2.3.1.1 200-4000 DPI (can be set in increments of 50 dpi)  2.3.1.2 Battery: rechargeable Li-Po (500 mAh) battery  2.3.1.3 Number of Buttons: 7  2.3.1.4 Wireless operating distance: 393.7 in (10m)  2.3.1.5 Wireless technology: Advanced 2.4GHz wireless technology  2.3.1.6 Bluetooth Required: Bluetooth® low energy technology  2.3.1.7 Color: Black  2.3.2 Inclusions  2.3.2.1 Wireless Mouse  2.3.2.2 Unifying USB receiver  2.3.2.3 Micro-USB cable for recharging  2.3.2.4 User documentation  2.4 4 TB External Storage  2.4.1 Specifications  2.4.1.1 Capacity: 4 TB  2.4.1.2 Storage Media: 2.5" HDD  2.4.1.3 Interface: Micro USB to USB type A  2.4.1.4 Operating Voltage: 5V  2.4.1.5 Build Feature: Rugged  3.0 Notes:  3.1 The mobile workstation must be shipped with 30-calendar day return for advanced replacement on DOA parts and components, and 3-year limited warranty that covers defects in materials and workmanship.  3.2 Warranty obligation: Five percent (5%).  3.3 The goods or service must be delivered within forty-five to sixty (45-60) calendar days upon issuance of Notice to Proceed (NTP).  3.4 The price of the bid must be inclusive of government tax.  3.5 Payment upon full delivery.  3.6 Charging: GAA - arQ 2.0</p>				
<b>TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):</b>				<b>2,203,000.00</b>
<b>RESERVATION CLASE</b>				
<p>The Advanced Science and Technology Institute reserves the right to accept or reject any proposal, to annul the bidding process, and to reject all proposals at any time prior to contract award, without thereby incurring any liability to the affected proponent or proponents.</p>				