



**DOST-ASTI Bids and Awards Committee**  
**REQUEST FOR QUOTATION**

<b>Kind of Procurement Activity:</b>	Negotiated Procurement: Small-value Procurement		
<b>Deadline of Submission of Bids:</b>	Apr-29-2025, 2:00 PM		
<b>RFQ No.:</b>	25-04-5193	<b>Date:</b>	April-25-2025
<b>PR No.:</b>	ROAMER-25-04-20956	<b>Date:</b>	April-14-2025

*The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the enlisted item/s below. Bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, except otherwise specified in the requirements. Award may be considered for prospective bidder/s proven to be the single/lowest calculated and responsive quotation among all other quotations. Guidelines on the format of quotations and eligibility documents are listed below. Kindly follow the prescribed GUIDELINES to avoid DISQUALIFICATION.*

*Quotations may be submitted 1) manually to the BAC Secretariat at G/F DOST-ASTI Bldg., UP Technology Park Complex, CP Garcia Ave., UP Campus, Diliman, Quezon City or 2) sent via electronic mail at bac-sec@asti.dost.gov.ph. For further information, please contact the BAC Secretariat at +63 2 8249-8500 loc. 1206/1212.*

Thank you.

**JEFFREY A. ABOROT**  
 BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<b>VARIOUS PROTOTYPING SUPPLIES AND MATERIALS</b> 1. GENERAL OVERVIEW 1.1. DOST-ASTI is seeking qualified and competent bidders for the One (1) Lot of Various Prototyping Supplies and Materials to be used by the HAWKS Component. 1.2. The Approved Budget for the Contract (ABC) is inclusive of all applicable government taxes and service charges. 1.3. Prospective bidders must send quotations within ABC of each item listed in Technical Specifications. 2. TECHNICAL SPECIFICATIONS 2.1. 3D Printer PLA Filament (ABC- ₱6,000.00) 2.1.1. Quantity: Five (5) Rolls 2.1.2. Filament Diameter: 1.75mm 2.1.3. Weight: 1 kilogram of PLA filament per spool 2.1.4. Color: Black Note: For consumables 2.2. 3D Printer PLA Filament (ABC- ₱6,000.00) 2.2.1. Quantity: Five (5) Rolls	1	lot	168500.00	168,500.00

2.2.2. Filament Diameter: 1.75mm				
2.2.3. Weight: 1 kilogram of PLA filament per spool				
2.2.4. Color: Pearl Red or Fire Engine Red				
Note: For consumables				
2.3. 3D Printer PLA Filament (ABC- ₱6,000.00)				
2.3.1. Quantity: Five (5) Rolls				
2.3.2. Filament Diameter: 1.75mm				
2.3.3. Weight: 1 kilogram of PLA filament per spool				
2.3.4. Color: Pine Green				
Note: For consumables				
2.4. 3D Printer PLA Filament (ABC- ₱6,000.00)				
2.4.1. Quantity: Five (5) Rolls				
2.4.2. Filament Diameter: 1.75mm				
2.4.3. Weight: 1 kilogram of PLA filament per spool				
2.4.4. Color: Silver				
Note: For consumables				
2.5. NP-F750 Battery (ABC- ₱8,400.00)				
2.5.1. Quantity: Six (6) Pieces				
2.5.2. Capacity: at least 5,200 mAh				
2.5.3. Voltage: at least 7.2 Volts				
2.5.4. Battery type: Lithium-ion Rechargeable				
Note: Part of the prototype				
2.6. NP-F Battery Charger (ABC- ₱7,950.00)				
2.6.1. Quantity: Three (3) Pieces				
2.6.2. Power Output: 7.2 Volts & 12 Volts				
2.6.3. Charging Port: Type-C				
2.6.4. Charger with metal battery adapter plate				
Note: For tools				
2.7. 3D Printer PETG Filament (ABC- ₱18,000.00)				
2.7.1. Quantity: Four (4) Rolls				
2.7.2. Manufacturing Precision: $\pm 0.02$ mm				
Guaranteed Precision				
2.7.3. Printing Setup Compatibility				
2.7.3.1. Nozzle: $250 \pm 10$ °C				
2.7.3.2. Heatbed: $80 \pm 10$ °C				
2.7.4. High Color Consistency				
2.7.5. Filament Diameter: 1.75mm				
2.7.6. Weight: 1 kilogram of PETG filament per spool				
2.7.7. Color: Jet Black				
2.7.8. Equivalent or Comparable Type Required				
Note: For consumables				
2.8. 3D Printer ASA Filament (ABC- ₱18,000.00)				
2.8.1. Quantity: Four (4) Rolls				
2.8.2. Manufacturing Precision: $\pm 0.04$ mm				
Guaranteed Precision				
2.8.3. Printing Setup Compatibility				
2.8.3.1. Nozzle: $260 \pm 5$ °C				
2.8.3.2. Heatbed: $110 \pm 5$ °C				
2.8.4. High Color Consistency				
2.8.5. Filament Diameter: 1.75mm				
2.8.6. Weight: 850g of ASA filament per spool				

2.8.7. Color: Jet Black  
2.8.8. Equivalent or Comparable Type Required  
Note: For consumables

2.9. Single-Board Computer (ABC- ₱24,000.00)

2.9.1. Quantity: Two (2) Units

2.9.2. Processor: Quad-core 64-bit ARM Cortex-A76 CPU, 2.4GHz, with cryptography extensions, 512KB per-core L2 cache, and 2MB shared L3 cache

2.9.3. Graphics: Integrated GPU supporting OpenGL ES 3.1 and Vulkan 1.2

2.9.4. Memory: 16GB LPDDR4X-4267 SDRAM

2.9.5. Display Output: Dual HDMI, supporting up to 4Kp60 with HDR

2.9.6. Video Decoding: Hardware-accelerated 4Kp60 HEVC decoder

2.9.7. Wireless Connectivity: Dual-band 802.11ac Wi-Fi and Bluetooth 5.0 / BLE

2.9.8. Storage: MicroSD card slot with high-speed SDR104 mode support

2.9.9. USB Ports: 2 × USB 3.0 (5Gbps), 2 × USB 2.0

2.9.10. Networking: Gigabit Ethernet with PoE+ support (requires separate PoE+ HAT)

2.9.11. Camera & Display Interfaces: 2 × 4-lane MIPI transceivers

2.9.12. Expansion: PCIe 2.0 x1 interface for high-speed peripherals (supports M.2 HAT or adapters)

2.9.13. Power Supply: 5V/5A DC via USB-C with Power Delivery support

2.9.14. GPIO: Standard 40-pin header

2.9.15. Additional Features: Real-time clock (RTC) with external battery support, power button

2.9.16. Equivalent or Comparable Model Required

Note: For tools

2.10. M.2 PCIe Expansion Board with SSD (ABC- ₱10,000.00)

2.10.1. Quantity: Two (2) Units

2.10.2. PCIe Expansion Board compatible with Single-Board Computers (SBCs)

2.10.3. Interface: Supports single-lane PCIe 2.0 (500 MB/s peak transfer rate)

2.10.4. Form Factor: Supports M.2 M key edge connector

2.10.5. Compatible Sizes: Supports M.2 2230 and 2242 form factors

2.10.6. Storage Capacity: 512GB NVMe SSD

2.10.7. Power Delivery: Capable of supplying up to 3A to connected M.2 devices

2.10.8. Indicators: Includes power and activity LEDs

2.10.9. Board Standard: Conforms to HAT+ specification for SBCs

2.10.10. Included Accessories: Ribbon cable, 16mm stacking header, threaded spacers and screws, and knurled double-flanged screw for securing the M.2 peripheral

2.10.11. Equivalent or Comparable Model  
Required

Note: Part of the prototype

2.11. DC-DC BUCK CONVERTER (ABC-  
₱2,400.00)

2.11.1. Quantity: Four (4) Units

2.11.2. Input Voltage Range: 3.6V – 25V DC

2.11.3. Output Voltage: 5V DC (regulated)

2.11.4. Maximum Output Current: 5A

Note: For tools

2.12. Microcontroller Development Board (ABC-  
₱9,000.00)

2.12.1. Quantity: Three (3) Units

2.12.2. Processor: Dual-core ARM Cortex-M0+  
microcontroller

2.12.3. Interfaces: USB, SPI, I2C, I2S, UART,  
PWM

2.12.4. I/O Pins: 20 PWM, 8 Analog, 22 Digital

2.12.5. Connectivity: Wi-Fi and Bluetooth

2.12.6. Built-in Sensors: 6-axis IMU with an  
embedded temperature sensor

2.12.7. Memory & Storage: Onboard RAM and  
Flash storage suitable for embedded applications

2.12.8. Form Factor: Compact board with  
castellated holes, compatible with standard headers  
and breadboards

2.12.9. Additional Features: Secure  
cryptographic module for enhanced security (if  
available)

2.12.10. Functional Requirement: Must be  
functionally and dimensionally equivalent to an  
industry-standard microcontroller development board  
with wireless connectivity and sensor integration

2.12.11. Equivalent or Comparable Model  
Required

Note: For tools

2.13. 3D Printer Nozzle (ABC- ₱4,950.00)

2.13.1. Quantity: Three (3) Pieces

2.13.2. Nozzle Type: Compatible with E3D  
V6-style hotends

2.13.3. Nozzle Diameter: 0.4 mm

2.13.4. Material: Brass

2.13.5. Functional Requirement: Must be  
dimensionally and functionally equivalent to  
industry-standard V6 nozzles for high-precision 3D  
printing

2.13.6. Equivalent or Comparable Model  
Required

Note: For tools

2.14. 3D Printer Nozzle (ABC- ₱4,950.00)

2.14.1. Quantity: Three (3) Pieces

2.14.2. Nozzle Type: Compatible with V6-style  
hotends

2.14.3. Nozzle Diameter: 0.6 mm

2.14.4. Material: Brass

2.14.5. Functional Requirement: Must be  
dimensionally and functionally equivalent to an

industry-standard V6 nozzle for high-precision 3D printing

2.14.6. Equivalent or Comparable Model Required

Note: For tools

2.15. SMOOTH PEI STEEL SHEET (ABC- ₱11,220.00)

2.15.1. Quantity: Two (2) Pieces

2.15.2. Surface Type: Smooth PEI-coated flexible steel sheet

2.15.3. Compatibility: Must be compatible with 3D printers using magnetic heated beds with size 250mm by 210mm

2.15.4. Functional Requirement: Must be dimensionally and functionally equivalent to a smooth PEI steel sheet designed for reliable adhesion and easy print removal

2.15.5. Equivalent or Comparable Model Required

Note: For tools

2.16. TEXTURED POWDER-COATED STEEL SHEET (ABC- ₱12,760.00)

2.16.1. Quantity: Two (2) Pieces

2.16.2. Surface Type: Textured, powder-coated PEI flexible steel sheet

2.16.3. Compatibility: Must be compatible with 3D printers using magnetic heated beds with size 250mm by 210mm

2.16.4. Functional Requirement: Must be dimensionally and functionally equivalent to a textured powder-coated steel sheet designed for strong adhesion and easy print removal

2.16.5. Equivalent or Comparable Model Required

Note: For tools

2.17. NOZZLE CLEANING NEEDLE (ABC- ₱2,420.00)

2.17.1. Quantity: Two (2) Set (at 5 pieces/set)

2.17.2. Diameter: 0.3 mm

2.17.3. Functional Requirement: Must be dimensionally and functionally equivalent to industry-standard cleaning needles used for 3D printer nozzle maintenance

2.17.4. Equivalent or Comparable Model Required

Note: For tools

2.18. 3D PRINTING ADHESIVE (ABC- ₱5,500.00)

2.18.1. Quantity: Two (2) Pieces

2.18.2. Volume: 50ml

2.18.3. Application: Designed for improving first-layer adhesion on heated print beds

2.18.4. Compatible Materials: ABS, PLA, PETG, HIPS, ASA, TPU

2.18.5. Features:

2.18.5.1. Easy application

2.18.5.2. Easy release

2.18.5.3. Easy clean

	<p>2.18.5.4. No smell 2.18.5.5. Non-toxic 2.18.5.6. No additional tools needed 2.18.5.7. Nicer print finish 2.18.6. Functional Requirement: Must be dimensionally and functionally equivalent to industry-standard 3D printing adhesives for various filament types 2.18.7. Equivalent or Comparable Model Required Note: For consumables</p> <p>2.19. WIRE ROPE (ABC- ₱4,950.00) 2.19.1. Quantity: One (1) Roll 2.19.2. Thickness: 3mm 2.19.3. Length: 75 meters 2.19.4. Material: Steel Note: For tools</p> <p>3. WARRANTY 3.1. The item and all its parts must have at least three (3) months of warranty from the time of delivery, which covers defects in materials. Warranty service shall commence from the date of end-user acceptance. Defective and incorrect items shall be replaced. 3.2. Any replacement service for defective and incorrect items must be successfully delivered within fifteen (15) calendar days or less upon receipt of notice from the end-user or DOST-ASTI Property and Supply Section.</p> <p>4. PAYMENT AND DELIVERY TERMS 4.1. Price must be inclusive of government taxes and other charges. 4.2. The goods must be delivered directly to the ASIMOV-HAWKS Project Office, Suite 097, Pryce Tower Condominium Corporation, Pryce Business Park, J.P. Laurel Ave., Brgy. 19-B (Pob.), Davao City, within thirty (30) calendar days upon issuance of Notice to Proceed. 4.3. Payment will be processed once the items are completely delivered, inspected, and accepted by the end-user. No payment shall be made for the supplies and materials not yet delivered under this contract.</p>				
<b>TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):</b>					<b>Php 168,500.00</b>
<b>GUIDELINES</b>					
<p><b>A. Content and Format of Quotations</b></p> <ol style="list-style-type: none"> <li><i>The Quotation/s must include the RFQ Number or the PR Number indicated above</i></li> <li><i>Bidders must specify the BRAND NAMES and MODEL NAMES/NUMBER for the following goods:</i> <ol style="list-style-type: none"> <li><i>Computer and electronic equipment and its accessories or peripherals</i></li> <li><i>Software applications, programs, and digital licenses</i></li> <li><i>Commercial off-the-shelf electronic devices or components</i></li> </ol> </li> <li><i>The Quotation/s must indicate the registered business name of the company (or individual), business address and contact number. It must also include the full name and signature of the company's authorized representative.</i></li> <li><i>BIR Certificate of Registration for new DOST-ASTI suppliers.</i></li> </ol>					

## **B. Eligibility Requirements**

Pursuant to Annex "H" or Consolidated Guidelines for the Alternative Methods of Procurement of the 2016 Implementing Rules and Regulations (IRR) of Republic Act (RA) No. 9184, the following documents shall be submitted except for Repeat Order, Shopping under Section 52.1(a), and Negotiated Procurement under Sections 53.1 (Two-Failed Biddings), and 53.5 (Agency-to-Agency):

### **For Procurement of Goods**

1. Upon submission of quotation
  - a. Valid PhilGEPS Registration Number / Organization ID
  - b. Valid Mayor's/Business Permit
2. Upon issuance of Notice of Award (NOA)
  - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
  - b. Income/Business Tax Return (For ABCs above P500,000.00)

### **For Procurement of Infrastructure**

1. Upon submission of quotation
  - a. Valid PhilGEPS Registration Number / Organization ID
  - b. Valid Mayor's/Business Permit
  - c. Valid PCAB License
2. Upon issuance of NOA
  - a. Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)
  - b. Income/Business Tax Return (For ABCs above P500,000.00)

*\*Requirements under Section 53.6 (Scientific, Scholarly or Artistic Work, Exclusive Technology and Media Services) of the revised IRR of RA No. 9184 will not apply to artists such as singer, performer, poet, writer, painter and sculptor who are engaged in business.*

*\*\*Requirements under Section 53.10 (Lease of Real Property or Venue) of the revised IRR of RA No. 9184, specifically Mayor's/Business Permit, PhilGEPS Registration Number and Income/Business Tax Return will not apply to government agencies as lessors.*

*\*\*\*For methods of procurement requiring Mayor's Permit and PhilGEPS Registration Number, valid Certificate of Platinum Membership may be submitted in lieu of the said documents.*

## **C. Terms and Conditions**

1. Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;
2. All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;
3. Liquidated damages of at least equal to one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay shall be imposed by the DOST-ASTI pursuant to Section 68 of the revised IRR of RA No. 9184; and
4. The DOST-ASTI reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.