



ASTI-FM 03-10  
REV 3/13 January 2020

**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>	Jul-14-2021, 2:00 PM		
<b>RFQ No.:</b>	21-07-3474	<b>Date:</b>	July-09-2021
<b>PR No.:</b>	GAA-21-06-11684	<b>Date:</b>	June-23-2021

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the item/s listed below. As such, suppliers, contractors, or distributors are invited to submit their quotation/s duly signed by authorized representative. Prospective bidder/s who will submit a proposal with the single/lowest calculated and responsive quotation shall be selected. Guidelines on the format and eligibility documents are listed at the box below the item/s to be procured.

Quotations may be sent via **a)** electronic mail at bac-sec@asti.dost.gov.ph, **b)** fax message, or **c)** delivering documents to the BAC Secretariat. For further inquiries, you may contact +63 2 249-8500 local 1206/1212 or +63 2 426-7423.

Thank you.

Respectfully,

**GERWIN P. GUBA**  
BAC Chairman

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<b>Mobile Robot Platform - Advanced</b> - Open source, ROS-based, fully-programmable mobile robot platform - Maximum translational velocity: 0.26 m/s - Maximum rotational velocity: 1.82 rad/s (104.27 deg/s) - Maximum payload: 30kg - Size (L x W x H): 281mm x 306mm x 141mm - Weight (+ SBC + Battery + Sensors): 1.8kg - Threshold of climbing: 10 mm or lower - Expected operating time: 2h - Expected charging time: 2h 30m - SBC (Single Board Computers): Raspberry Pi 3 Model B+ or better - MCU: 32-bit ARM Cortex@-M7 with FPU (216 MHz, 462 DMIPS) or better - Remote Controller: RC-100B + BT-410 Set (Bluetooth 4, BLE) - Actuator: XM430-W210 - LDS(Laser Distance Sensor): 360 Laser Distance Sensor LDS-01 - Camera: Raspberry Pi Camera Module v2.1 or better - IMU: Gyroscope 3 Axis, Accelerometer 3 Axis, Magnetometer 3 Axis - Power connectors: 3.3V / 800mA 5V / 4A 12V / 1A - Expansion pins: GPIO 18 pins Arduino 32 pin	1	pc	110000.00	110,000.00

	<ul style="list-style-type: none"> <li>- Peripheral: UART x3, CAN x1, SPI x1, I2C x1, ADC x5, 5pin OLLO x4</li> <li>- DYNAMIXEL ports: RS485 x 3, TTL x 3</li> <li>- Audio: Several programmable beep sequences</li> <li>- Programmable LEDs: User LED x 4</li> <li>- Status LEDs: Board status LED x 1 Arduino LED x 1 Power LED x 1</li> <li>- Buttons and Switches: Push buttons x 2, Reset button x 1, Dip switch x 2</li> <li>- Battery: Lithium polymer 11.1V 1800mAh / 19.98Wh 5C</li> <li>- PC connection: USB</li> <li>- Firmware upgrade: via USB / via JTAG</li> <li>- Power adapter (SMPS): Input : 100-240V, AC 50/60Hz, 1.5A @max Output : 12V DC, 5A</li> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>				
2	<p><b>2D 360 Degree Laser Range Finder - 18M</b></p> <ul style="list-style-type: none"> <li>- Distance Range: 18 meters</li> <li>- Sample Rate: 8000 times per second</li> <li>- Scan Rate: Typical value: 10 HZ (adjustable between 5 HZ-15HZ)</li> <li>- Angular Resolution: 0.9°</li> <li>- Communication Interface: TTL UART</li> <li>- Communication Speed: 256000bps</li> <li>- Compatible with ROS</li> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	2	pc	27500.00	55,000.00
3	<p><b>Power Inverter</b></p> <ul style="list-style-type: none"> <li>- Size: 24.7*10.2*5.4cm</li> <li>- Material: Aluminium alloy</li> <li>- Peak power: 12000W</li> <li>- Rated power:10000W</li> <li>- Digital display: input / output voltage</li> <li>- Input voltage: DC 12V</li> <li>- Output voltage: 220VAC/50Hz±3Hz</li> <li>- USB output: 5VDC-2.1A/1A/2.4A/1A (4USB interface)</li> <li>- Plug: universal plug *3</li> <li>- No-load current: 0.9A</li> <li>- Conversion Efficiency: ≥95%</li> <li>- Protection function: overload, over temperature, high voltage, low voltage, reverse connection and short circuit, intelligent temperature control, 4USB output interface, universal US plug, double screens, which can be used for small power appliances (except inductive load electric appliances and motor products).</li> <li>- Low Voltage Alarm: 10.4V - 11V</li> <li>- Low Voltage Shut Down: 9.7V - 10.3V</li> <li>- Over Voltage Shut Down: 14.5V - 15.5V</li> <li>- Weight: approx. 1080g</li> <li>- Package Includes: <ul style="list-style-type: none"> <li>+ 1*12000W DC12 To 220V Solar Inverter</li> <li>+ 1*Cable With Clamp</li> <li>+ 1*Car charger</li> </ul> </li> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	3	pc	5500.00	16,500.00

4	<b>Universal Windshield Washer Kit</b> - Voltage: 12V - Pump Pressure: 170KPA - Tank Capacity: 1.8L - Kit includes: + Washer Tank with Pump + Hose/Tube + Fittings + Electrical Connectors + Bolts and Nuts + Nozzles + Mounting  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	3	pc	850.00	2,550.00
5	<b>Adjustable Nozzle - 5-Head</b> - Item Type: Micro Irrigation System - Material: PVC - Color: Black - Product Length: Approx.54cm/21.26in - Weight: Approx.63g/2.2oz - Package List: + 1 x Water Pipe + 1 x Heavy Ball + 5 x Gray Nozzle + 1 x Cross-Head Nozzle  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	4	pc	400.00	1,600.00
6	<b>Windshield Washer Check Valve</b> - ABS Check Valve for Windshield Washer - Compatible with 4mm x 7mm hose  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	4	pc	575.00	2,300.00
7	<b>Windshield Washer Connector</b> - Connectors for 4mm Hose - Pack contains (36 pieces per pack): + I-type: 2-way hose connector (12PCS) + T-type: 3-way hose connector (12PCS) + Y-type: 3-way hose connector (12PCS)  - Inclusive of government taxes, delivery, etc. - Delivery: 60 days upon issuance of NTP	2	pack	300.00	600.00
8	<b>Liquid Level Sensor - Analog</b> - Material: Plastic - Color: Black - Switch Power (Max): 10W - Switching Voltage (Max): 100V - Switching Current (Max): 0.5A - Breakdown Voltage (Max): 220VDC - Carry current (Max): 1A - Contract Resistance: 100 milli-ohm - Temperature Rating: -20°C ~ +80°C - Float Length: 85 mm / 3.35" - Cable Length: 37.7cm	2	pc	300.00	600.00

	<ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>				
9	<p><b>Liquid Level Sensor - Digital</b></p> <ul style="list-style-type: none"> <li>- Operating Voltage (InVCC): DC 5 ~ 24 V</li> <li>- Current Consumption: 5 mA</li> <li>- Output voltage (high level) : InVCC</li> <li>- Output voltage (low level) : 0V</li> <li>- Output current: 1 ~ 50 mA</li> <li>- Response time: 500 ms</li> <li>- Operating Temperature : 0 ~ 105 °C</li> <li>- Range for thickness of induction (sensitivity): 0 ~ 13 mm</li> <li>- Humidity: 5% ~ 100%</li> <li>- Material: ABS</li> <li>- Waterproof performance: IP67</li> <li>- Dimension : 28 * 28 mm / 1.1 * 1.1 inches</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	2	pc	1500.00	3,000.00
10	<p><b>2G11 Socket</b></p> <ul style="list-style-type: none"> <li>- Type: 2G11 lamp holder</li> <li>- Color: white</li> <li>- Size: 4.8cm x 3.2cm x 2.1cm</li> <li>- Weight: 37g</li> <li>- Material: PC</li> <li>- Rated voltage: 250V</li> <li>- Thermal resistance: 100°C</li> <li>- Rated current: 2A</li> <li>- Package includes: 2pcs 2G11 lamp holders</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	10	pc	250.00	2,500.00
11	<p><b>Motherboard for Ender 3</b></p> <ul style="list-style-type: none"> <li>- Dimension:100.75 x 70.25mm</li> <li>- Layer: 4 layers</li> <li>- MCU: At least ARM Cortex-M3 STM32F103RCT6</li> <li>- Power input: DC 12 / 24V</li> <li>- Logic voltage: 3.3V</li> <li>- Motor driver: UART mode of on board TMC2209;</li> <li>- Motor drive interface: XM, YM, ZAM, ZBM, EM</li> <li>- Temperature sensor interface:TH0,THB,2 channels 100K NTC (thermal resistance)</li> <li>- Display:2.4 inch TFT, 3.5 inch TFT, Ender3 original LCD12864 screen, etc.</li> <li>- PC communication interface:mini-USB-B type, easy to plug and unplug, communication baud rate 115200</li> <li>- Support file format: G-code</li> <li>- Includes motherboard, motor driver heatsinks, USB cable</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	1	pc	3150.00	3,150.00
12	<p><b>All-metal Hotend for Ender 3</b></p> <ul style="list-style-type: none"> <li>- Compatible with Ender 3</li> <li>- Drop-in replacement</li> <li>- Improved aluminum cooling block</li> <li>- Titanium alloy heat block</li> </ul>	1	pc	2000.00	2,000.00

	<ul style="list-style-type: none"> <li>- Includes All-Metal Hotend, 0.4 mm MK8 Nozzle, Silicone Sock, Bowden Collet</li> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>				
13	<p><b>Level Spring for Ender 3</b></p> <ul style="list-style-type: none"> <li>- Type: flat bed springs</li> <li>- Color: blue</li> <li>- Inner diameter: 8mm</li> <li>- Outer diameter: 4mm</li> <li>- Length: approx. 25mm</li> <li>- Quantity: 4pcs per set</li> </ul> <ul style="list-style-type: none"> <li>- Inclusive of government taxes, delivery, etc.</li> <li>- Delivery: 60 days upon issuance of NTP</li> </ul>	5	pc	100.00	500.00

**TOTAL APPROVED BUDGET FOR THE CONTRACT:**

**Php 200,300.00**

### GUIDELINES

**A. Submission of Quotations**

1. Quotation/s shall include the Request for Quotation and/or the Purchase Request Number as state above;
2. Pictures or brand/model names or numbers, if applicable, should be specified in the quotation/s; and
3. Quotation/s must be signed by the company's duly authorized representative.

**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, as amended by Government Procurement Policy Board Resolution No. 21-2017 dated 30 May 2017, 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
  - ✓ PhilGEPS Platinum Membership Certificate including Annex "A". If not available, the following alternate documents may be submitted:
    - PhilGEPS Registration Number
    - Mayor's Permit
      - For individuals/professionals engaged under Section 53.6, 53.7 and 53.9 of the 2016 IRR of RA No. 9184, only the Bureau of Internal Revenue (BIR) Certificate of Registration shall be submitted in lieu of the Mayor's Permit.
2. Upon issuance of Notice of Award (NOA)
  - ✓ Omnibus Sworn Statement
    - Applicable only for bidders who have submitted their quotation on item/s with a total Approved Budget for the Contract (ABC) of above Php50,000.00.
  - ✓ Income/Business Tax Return
    - Applicable only for: **a)** bidders who have submitted their quotation on item/s with a total ABC of above Php500,000.00; and **b)** bidders for Lease of Real Property and Venue (except for government agencies as lessors).

**For Procurement of Infrastructure**

1. The requirements for Goods with the same submission indicated therein; and
2. Valid Philippine Contractors Accreditation Board License.

**For Procurement of Consulting Services**

1. The requirements for Goods with the same submission indicated therein; and
2. Valid Professional Regulation Commission License or Curriculum Vitae.

**NOTE:** For new suppliers, submit a BIR Certificate of Registration for accounting purposes.

**C. Terms and Conditions**

1. Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;
2. For all kinds of procurement, the bidder who passed the bid evaluation, shall submit a duly notarized Omnibus Sworn Statement upon issuance of NOA, unless otherwise provided;
3. All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;
4. A penalty of one-tenth of one percent (0.001) of the total value of the undelivered goods/services shall be charged as liquidated damages for every day of delay of the delivery; and
5. The DOST-ASTI 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.