



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>	May-14-2021, 2:00 PM		
<b>RFQ No.:</b>	21-05-3391	<b>Date:</b>	May-10-2021
<b>PR No.:</b>	GAA-21-04-11264	<b>Date:</b>	April-29-2021

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,

**REYNALDO JOSEPH A. CALLAO JR.**  
*BAC Chairman*

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p><b>Multiparameter Weather Sensor</b> Charged to Apayao</p> <p>A. TECHNICAL DATA</p> <p>1. All- in-one weather sensor with integrated electronic compass</p> <p>2. Measures: wind speed, wind direction, air pressure, temperature, relative humidity, solar radiation</p> <p>3. Dimensions: - Diameter: approx. 150 mm - Height: approx 332 mm - Weight: 1.35kg to 1.65kg</p> <p>4. Temperature - Principle: NTC - Measuring range: -50 to 60 ° C - Accuracy: if temperature is -20°C to +50°C, accuracy must be ±0.2 ° otherwise ±0.5 ° C (&gt; -30 ° C)</p> <p>5. Relative humidity - Principle: Capacitive - Measuring range: 0 to 100 % RH - Accuracy: ±2 % RH</p> <p>6. Air pressure</p>	1	unit	246000.00	246,000.00

- Principle: MEMS Capacitive
- Measuring range: 300 to 1200 hPa
- Accuracy:  $\pm 0.5$  hPa (0 to + 40 ° C)

#### 7. Wind direction

- Principle: Ultrasonic
- Measuring range: 0 to 359.9 ° C
- Accuracy: 1.0m/s

#### 8. Wind speed

- Principle: Ultrasonic
- Measuring range: 0 to 60 m/s
- Accuracy:  $\pm 0.3$  m/s or  $\pm 3$  % (0 to 35 m/s) RMS of reading, whichever is greater  $\pm 5$  % (> 35 m/s) RMS

#### 9. Radiation

- Response Time (95%): <18s
- Non-stability (change/year): <1%
- Non-linearity (0 to 1,000 W/m<sup>2</sup>): <1%
- Directional error (at 80° with 1,000W/m<sup>2</sup>): <20W/m<sup>2</sup>
- Temperature dependence of sensitivity: <5% (-10 to +40 ° C)
- Tilt error (at 1,000W/m<sup>2</sup>): <1%
- Spectral range (50% points): 300 to 2,800nm
- Maximum irradiance : 1,400W/m<sup>2</sup>
- General Information
- Heating: 20 VA at 24 VDC
- Protection type housing: IP66
- Interface: SD1-12
- Operating Power Consumption: 24VDC +/-10%
- Operating humidity range: 0 to 100 %
- Op. temperature range: -50 to 60 ° C

#### B. Accessories:

1. Customized 2 meters shielded cable terminated both sides with waterproof M12, 8pin, female plug connector
2. Matching male connector (receptacle) with pre-soldered multi-colored wires, 180mm in length, receptacle must be waterproof, panel rear entry and front fastened, max mounting cutout should not be more than 12mm in diameter.

#### Wire specs:

- AWG - 26-20
- Voltage Rating - 30V (at max)
- Current Rating: 2A (at max)

#### C. Maintenance:

1. Supplier should provide quote for factory recalibration
2. Supplier should provide provision for 24-hour response time and thirty (30) calendar days turn around time for repair services

#### D. Notes:

1. Supplier must provide detailed mechanical drawing and data sheet of the connectors for approval by the end-user prior to delivery.
2. End-user may request for a demonstration with the Lowest Calculated Responsive Quotation (LCRQ) / Single Calculated Responsive Quotation (SCRQ)

	<p>during post-qualification.</p> <p>3. Supplied with comprehensive, traceable, calibration certificate/s</p> <p>4. Supplier must provide product brochures</p> <p>5. At least 2 years warranty of parts and services</p> <p>6. Must be delivered to ASTI</p> <p>8. Must be compatible to ASTI-ARQ datalogger Firmware 3.0 and latter</p> <p>E. Others:</p> <p>1. Delivery: Thirty (30) days upon issuance of NTP, ASTI may cancel the contract upon non-delivery</p> <p>2. Price is inclusive of government duties and taxes and other fees.</p> <p>3. Payment upon full delivery</p>				
2	<p><b>Soil Moisture Sensor</b></p> <p>A. General</p> <p>1. Three-probe sensor</p> <p>2. Measures the following soil parameters:</p> <ul style="list-style-type: none"> <li>- moisture</li> <li>- temperature</li> <li>- electric conductivity</li> </ul> <p>3. Dielectric measurement frequency(70MHz)</p> <p>4. Volumetric Water Content (VWC):</p> <p>Using Topp equation: <math>\pm 0.03\text{m}^3/\text{m}^3</math> (<math>\pm 3\%</math> VWC) typical in mineral soils that have solution electrical conductivity <math>&lt; 10\text{dS/m}</math></p> <p>Using medium specific calibration, <math>\pm 0.01 - 0.02\text{m}^3/\text{m}^3</math> (<math>\pm 1-2\%</math> VWC) in any porous medium</p> <p>Temperature: <math>\pm 1^\circ\text{C}</math></p> <p>5. Resolution</p> <p>VWC: <math>0.0008\text{m}^3/\text{m}^3</math> (0.08% VWC) from 0 to 50% VWC</p> <p>0.25%</p> <p>VWC (rockwool)</p> <p>Temperature: <math>0.1^\circ\text{C}</math></p> <p>6. Range</p> <p>EC: 0-23 dS/m (bulk)</p> <p>Temperature: <math>-40-50^\circ\text{C}</math></p> <p>Dimensions: 10 x 3.2 x 0.7cm</p> <p>Cable: 5m, customized cabling with waterproof connector, 3-pin</p> <p>Measurement: 150 ms</p> <p>7. Time</p> <p>Power: 3.6-15 VDC, 0.3mA quiescent, 10mA during 150ms measurement</p> <p>Output: SDI-12</p> <p>B. Maintenance:</p> <p>1. Supplier should provide quote for factory recalibration</p> <p>2. Supplier should provide provision for 24-hour response time and thirty (30) calendar days turn around time for repair services</p> <p>C. Notes:</p> <p>1. Supplied with comprehensive, traceable, calibration certificates</p> <p>2. Supplier must provide product brochures</p> <p>3. At least 2 years of limited warranty of parts and</p>	2	unit	28000.00	56,000.00

services

4. Must be delivered to ASTI
5. Must be compatible to ASTI-ARQ datalogger connectors and firmware 3.0 and latter

D. Others:

1. Delivery: Thirty (30) days upon issuance of NTP
2. Price is inclusive of government duties and taxes and other fees.
3. Payment upon full delivery

**TOTAL APPROVED BUDGET FOR THE CONTRACT:**

**Php 302,000.00**

**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.