



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>	Oct-19-2021, 2:00 PM		
<b>RFQ No.:</b>	21-10-3588	<b>Date:</b>	October-14-2021
<b>PR No.:</b>	ULAT-21-09-12107	<b>Date:</b>	September-20-2021

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	<p><b>Lightning Detecting Sensor for prototyping</b></p> <p>1. BACKGROUND AND OBJECTIVES</p> <p>1.1. The Advanced Science and Technology Institute (ASTI) is seeking qualified and competent bidders for the supply and delivery of lightning detecting sensor (herein referred to as the "sensor") and its accessories which can detect lightning flashes up to 35 km or 22 miles and gives signals like warning and alert within its detection range.</p> <p>1.2. The approved budget for the contract is inclusive of all applicable government taxes and services charges.</p> <p>1.3. The technical specifications written herein are of minimum requirements, unless otherwise stated.</p> <p>1.4 The procurement of this sensor is an additional equipment and must be similar to the existing BTD-200 sensor previously procured.</p> <p>1.5 This sensor will be used for research and product prototype development.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1 One (1) Lot Lightning Detecting Sensor</p> <p>2.1.1 Sensor should at least detect the following types of lightning: 1.) cloud-to-cloud, 2.) cloud-to-ground, and 3.) intra-cloud lightning discharges.</p> <p>2.1.2 The target lightning detection range of the</p>	1	lot	968000.00	968,000.00

sensor must be at least 35 km (22 miles).

2.1.3 The sensor's range resolution must be at least 1km.

2.1.4 The sensor must possess the following detection efficiency:

2.1.4.1. For single lightning flashes for flashes within 35 km, the detection efficiency must be at least 95%.

2.1.4.2. For a storm with two (2) lightning flashes for flashes within 35 km, the detection efficiency must be at least 99%.

2.1.4.3. For a storm with three (3) lightning flashes for flashes within 35 km, the detection efficiency must be at least 99.9%.

2.1.5 The approximate false alarm rate must be less than 2%.

2.1.6 The sensor's maximum flash rate must be at least 120 per minute.

2.1.7 The maximum update rate for the sensor must be at least 2 seconds.

2.1.8. The lightning detecting sensor must be equipped with the following outputs:

2.1.8.1. The control box should have a wired serial connection (RS422).

2.1.8.2. It should also have a wide area sounder with a wired Serial connection (RS485).

2.1.8.3. The sensor must have three (3) relays (Alert State, Warning State, and Self-test) with volt free contacts. All of its relays must be at least 16 VAC and 35 VDC.

2.1.8.4. The outputs' relays must be at least 5A.

2.1.8.5. The sensor must have a screw terminal as its connection method.

2.1.9 The power requirements of the lightning detecting sensor must be the following:

2.1.9.1. The sensor's supply voltage must be at least 9 to 30 VDC.

2.1.9.2. The sensor's power consumption must be less than 5W.

### 3. ACCESSORIES

3.1. The lightning detecting sensor must include a direction finder with mounting arm.

3.2. The sensor must also include three (3) pcs of power cable.

3.2.1. The power cable must be at least 20 meters long.

3.3 The sensor must also have three (3) pcs of data cable.

3.3.1. The data cable must be at least 20 meters long.

3.4 The sensor must include three (3) pcs of mounting pole.

3.4.1. The mounting pole must be at least 1.5 meters long.

3.5 The sensor must possess a universal mains voltage adapter.

3.6 The sensor must be equipped with a serial communications interface.

3.7 The sensor must have a compatible software where

the end-user can view and retrieve its data.  
 3.8 The sensor must include a spare kit which will serve as a replacement for failed components.  
 3.9 The sensor must have a manual.

**4. WARRANTY AND AFTER-SALES SUPPORT**

4.1 The lightning detecting sensor must have at least one (1) year warranty from time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.  
 4.2. Any repair or replacement service must be successfully performed within sixty (60) business days.  
 4.3. The end-user must be able to request technical support by phone and/or email.

**5. DELIVERY AND PAYMENT TERMS**

5.1 The goods must be delivered within sixty (60) calendar days upon issuance of Notice to Proceed (NTP).  
 5.2 Full payment will only be given once the items were 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.

**TOTAL APPROVED BUDGET FOR THE CONTRACT: Php 968,000.00**

**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.