



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>	Jun-02-2021, 2:00 PM		
<b>RFQ No.:</b>	21-05-3415	<b>Date:</b>	May-28-2021
<b>PR No.:</b>	GAA-21-05-11356	<b>Date:</b>	May-17-2021

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>Controller box with Solar Panels</b> Controller Box with Solar Panels (for Alerting Stations)</p> <p>I. Specifications A. Body Color: Gray B. Overall Dimensions: HxWxD (14.13" x 12.26" x 6.13") C. Standards: Complies with NEMA Type 1,2,3,4,4X,12 and 13, IEC529, IP66 D. Construction - Molded fiberglass polyester enclosure with matching cover - Stainless steel draw type "snap latch" door fastener - Door fasteners include a provision for padlocking - Door is supported with continuous stainless-steel hinge - Captive oil resistant gasket - Threaded brass inserts for mounting feet to ear of the enclosure - Stainless steel mounting brackets and hardware for mounting to the rear of enclosure - Operating temperatures between 130C and -40C</p> <p>E. Assembly of items for DEWS Warning Station includes (detailed engineering design will be provided upon signing of NDA)</p>	2	set	55000.00	110,000.00

1. Lead Acid Battery
  - Valve Regulated Lead-Acid Battery (Heavy Duty)
  - Voltage: 12V
  - Capacity: 17AH
  - Dimensions: 180x77x168 (LxWxH)
  - Excellent cycling capability
  - Very high energy density
  - High rate discharge capability
  - Lowest self discharge rate
  - Approved for shipping as non-hazardous, non-spillable
  - Operates in any position
  - Low internal resistance
  - With at least 6 months warranty
  - Voltage must be at least 12.5V upon delivery
  - Manufacturer of the battery must have the ISO / YYS16949 Calibration
2. Cable Assembly (wire color coding drawing will be provided by end-user)
  - a. arQ Connector to TSB
    - 8 pin chogori female
    - 35cm
    - 8 way connector female
  - b. Connector to Solar Panel
    - 4 pin chogori female
    - 35cm
    - 4 way connector/bottom box
  - c. arQ to iO TSB
    - 4 pin chogori female
    - 35cm
    - 4 way connector shared
3. ASTI-Designed datalogger
  - a. Circuit Boards
    - i. GDAT Main Board
      - Includes board fabrication and component assembly
      - Includes board fabrication and component assembly
      - Includes component sourcing based on BOM
      - gerber and BOM files are available upon request
      - Must pass based on testing procedure
    - PCB Specifications:
      - Dimension: 82.22mm x 64.2mm
      - Material: FR-4
      - Silkscreen: White (Top and bottom)
      - Solder Mask: Double
      - LPI color: Black
      - PCB Thickness : 1.64 mm
      - Number of Electrical Layers : 2
    - ii. GSM Module
      - Includes board fabrication and component assembly
      - Includes component sourcing based on BOM
      - gerber and BOM files are available upon request
      - Must pass based on testing procedure submitted
    - PCB Specifications:
      - Dimension: 37mm x 50m
      - Material: FR-4
      - Silkscreen: White (Top and bottom)
      - Solder Mask: Double
      - LPI color: Blue
      - PCB Thickness: 1.64 mm
      - Number of Electrical Layers: 2
    - iii. Power Board 1 and 2

- Includes board fabrication and component assembly
- Includes component sourcing based on BOM
- gerber and BOM files are available upon request
- Must pass based on testing procedure submitted

PCB Specifications:

- Dimensions: 24.4mm x 64.2mm
- Material: FR-4
- Silkscreen: White (Top and bottom)
- Solder Mask: Double
- LPI color: Green
- PCB Thickness: 1.64 mm
- Number of Electrical Layers: 4 and 2

Notes:

1 pair = 1 pc of Power Board 1 and 2

iv. Pressure module

- Includes board fabrication and component assembly
- Includes component sourcing based on BOM
- gerber and BOM files are available upon request
- Must pass based on testing procedure submitted

PCB Specifications:

- Dimensions: 20.32mm x 20.32mm
- Material: FR-4
- Silkscreen: White (Top and bottom)
- Solder Mask: Double
- LPI color: Blue
- PCB Thickness: 1.64 mm
- Number of Electrical Layers: 2

v. TPS Module Board

- Includes board fabrication and component assembly
- Includes component sourcing based on BOM
- gerber and BOM files are available upon request
- Must pass based on testing procedure submitted

PCB Specifications:

- Dimensions: 13x15mm
- Material: FR-4
- Silkscreen: White (Top and bottom)
- Solder Mask: Double
- LPI color: Black
- PCB Thickness: 1.64 mm
- Number of Electrical Layers: 2

b. Enclosure

- Fabrication of customized casing for the datalogger based on drawing design
- Includes fabrication of saddle clamps and lock bars based on drawing design
- Includes industrial design for the tooling
- Materials: weatherproof and UV-resistant
- Ingress protection: IP67

c. Lithium Polymer Battery

- Type: Lithium Polymer (LiPo) with built-in protection circuit module (PCM)
- Voltage (Nominal): 3.7V
- Capacity: 6800 mAh (Typical) 6500 mAh (Minimum)

Charge:

- Max Current: 6800 mAh
- Limited Voltage : 4.2 +/- 0.02 V
- End-of-Current: 136 mA

Discharge :

- Max Current: 13600mA
- End Voltage: 2.75+/-0.005

- Operation Temp:
- Charge : 0 - 45 deg C
- Discharge : -20 - +60 deg C
- Safety Characteristics:
- Overcharged: No fire or explosion
- Short Circuit: No fire or explosion (150 deg C max heat)
- Heating: No fire or explosion
- Acclimatization Characteristics :
- High Temp and High Humidity : No deformation, no rust, no fire or explosion
- Discharge Time  $\geq$  36 min
- Vibration : No damnification, no leak,no fire or explosion
- Battery Voltage  $\geq$  3.6 V
- Drop : No leakage, no fire or explosion
- Discharge Time :  $\geq$  36 min.
- High Temp Discharge Capacity : 57 mins.
- Low Temp Discharge Capacity : 4.25 hrs.
- Overcharge protection :
- Detection Voltage : 4.28 +/- 0.05 V
- Detection Delay Time : 0.96 - 1.4 secs.
- Release Voltage : 4.175 +/- 0.025 V
- Overdischarge Protection :
- Detection Voltage : 3 +/- 0.1 V
- Detection Delay Time : 115 - 173 ms
- Release Voltage : 3.5 +/- 0.05 V Over Current Protection
- Detection Voltage : 0.1 +/- 0.015 V
- Detection Current : 2 - 6 A
- Cycle Life :  $\geq$  300 cycles
- Dimension : 9.8x51.5x120 mm (ThickxWidthxLength) max
- Approx Weight : 136 g
- Connector and wiring Specs :
- Type : Connector, Housing
- Body Orientation : Straight
- Housing Material : Nylon 66
- Max Current Rating : 3 A
- Max Voltage : 250 V
- Temp Rating : -25 deg C to 85 deg C
- No. of contacts : 3 (positive, NTC, negative)
- No. of Rows : 1
- Pitch : 2 mm
- Dimension : 2x8x5.8 mm (DepthxHeightxLength)
- Wire Size : 22-28 AWG
- Wire Length : 50mm +-3.0
- Packaging:
- High temp. adhesive tapes and wrapped with PVC material
- with external 1k carbon resistor connected to NTC connection
- d. Configuration Warning station (Detailed engineering drawing will be provided by end-user upon request and signing of NDA)
- e. Assembly and testing
- includes all assembly and integration of boards, enclosures/mechanical fixtures, solar panels and sensors
- Includes functional testing and must pass based on end-user's testing procedure (generate individual test

report from test)

#### F. 30W Solar Panel

- Type: Mono-crystalline Solar Module
- Peak Power: at least 25 W
- Cell Efficiency: 14.02 % (min)
- Max. Power voltage (Vmp): 17.56 V (min)
- Max. power current (Imp) : 1.42 A (min)
- V (open circuit) : 21.16 V
- I (short circuit) : 1.64 A
- Max system voltage: 600 V
- Dimensions: 450x541x25 mm
- Weight: 2.9 kg ( 6.19 lbs.)
- No. of cells: 36 in series (4x9)
- Construction: High transmission low-iron tempered glass,EVA,TPT
- Frame: Anodized Aluminium

Module warranty:

- 25-yr limited warranty of 80% power output
- 10-yr limited warranty of 90% power output
- 5-yr limited warranty of materials and workmanship
- Manufacturer of the module must have the necessary ISO certification

#### 4. Back Plate and Switch Panel Mounting

a. One set includes:

- i. One(1) pc DEWS Alerting Station Controller Box' Back Plate
- ii. One(1) pc DEWS Trigger Switch Panel v3
- iii. One(1) pc OM17-12 Battery Holder Leg B
- iv. One(1) pc OM17-12 Battery Holder Lock v02 rev00
- v. Two(2) pcs Trigger Switch Panel Leg A ver02
- vi. One(1) pc Trigger Switch Panel Leg A ver03
- vii. Two(2) pcs Brass Hinges
- viii. Two(2) Screw Clips
- ix. 16 pcs Blind Rivets
- x. One(1) pc M6x14mm S.S. Hex Bolt
- xi. One(1) pc M6 S.S. Hex Nut
- xii. One(1) pc M6 S.S. Plain Washer
- xiii. Two(2) pcs M3 S.S. Plain Washers
- xiv. Two(2) pcs M3 S.S. Cross Recessed Pan Head
- xv. Tapping Sheet Metal Screws

b. Notes

- Material of items a.i to a.vi is 2.25mm(min) Aluminum Sheet, and must be anodized.
- Fabrication drawing of items a.1 to a.vi will be provided by the end-user
- Supplier must use an appropriate hinge (item a.vii) that will be used based on the specification of the end-user (please see the fabrication drawing).
- Item a.ii and a.v's mounting hole will depend on the mounting holes of the hinges that will be used.
- Supplier must use an appropriate screw clip (item a.viii), Thread: M3 or any equivalent item in English Standard.
- Items a.xiii and a.xiv must be compatible with the screw clip (item a.viii) the supplier used.
- Items a.xiii and a.xiv must be compatible with the screw clip (item a.viii)
- Item a.ix (Blind Rivets) must be appropriate to the provided mounting holes based on the fabrication

	<p>drawing provided by the user.</p> <ul style="list-style-type: none"> <li>- Sample and detailed manufacturing drawing with BOM must be submitted and approved before production</li> <li>- All part must be properly assembled according to end-user's drawing</li> </ul> <p>5. ASTI-designed clip holder for datalogger</p> <ul style="list-style-type: none"> <li>- Refer to attached drawing</li> <li>- Material: plastic</li> <li>- Complete with stainless screws and nuts</li> <li>- BOM may be presented upon request</li> </ul> <p>I. Packaging</p> <ul style="list-style-type: none"> <li>- All metal parts and fasteners must be properly assembled according to end-user's drawing</li> <li>- Complete assembled parts must be properly packed</li> </ul> <p>II. Notes</p> <ul style="list-style-type: none"> <li>- Detailed manufacturing drawing with BOM must be submitted by supplier and approved by end-user before production.</li> <li>- LCRQ / SCRQ must provide one (1) sample of actual unit based on approved BOM for approval by the end-user as part of the post-qualification and prior to award. If approved by end-user, one (1) sample will be retained for reference of the units to be delivered.</li> <li>- At least 1 year warranty of parts and services</li> <li>- Must be licensed by ASTI</li> <li>- Must be delivered to ASTI</li> </ul> <p>III. Others</p> <ul style="list-style-type: none"> <li>- Delivery: Thirty (30) days upon issuance of NTP</li> <li>- Price is inclusive of government duties and taxes and other fees</li> <li>- Payment upon full delivery</li> </ul>				
2	<p><b>Siren</b></p> <p><b>FEATURES:</b></p> <p>This alerting-siren enables the recording of any type of content such as voice or music that can be played back at CD quality output at SPL to 112dB(A) at 1 metre. This content can be reproduced repeatedly, alternating with or without one of the built-in 45 alarm tones. The alarm tone notification has an output of up to 126dB(A) at 1 metre. For multiple unit installations the recording process is only required once to create a master unit which can then be used to program all other units on the system, guaranteeing synchronisation during playback, using the supplied 'Synch' cable.</p> <p><b>SPECIFICATION:</b></p> <ul style="list-style-type: none"> <li>- Voice content output: 111dB(A) @ 1 metre (min)</li> <li>- Music content output: 112dB(A) @ 1 metre (min)</li> <li>- Alarm tone output: 126dB(A) @ 1 metre (min)</li> <li>- No. of alarm tones: 45 (UKOOA/PFEER compliant)</li> <li>- No. of messages: 4 (30 seconds each) (min)</li> <li>- Volume controls: Independent controls for user</li> </ul>	12	set	14500.00	174,000.00

	recorded content and built-in alarm tones - Effective range: 300m @ 1KHz (min) - Voltages DC: 12-30Vdc - Ingress protection: Type 4 / 4X / 3R / 13, IP66 - Rating: Continuous - Housing material: UL94V0 & 5VA FR ABS - Housing colour: RAL3000 Red or RAL7038 Red - Fixings: Stainless Steel - Cable entries: 2 x M20 clearance gland entries. - Terminals: 0.5 to 2.5mm <sup>2</sup> - Operating temp: -25° to +55°C - Storage temp: -40° to +70°C - Relative humidity: 90% at 20°C - Weight : DC: 2.10kg - Warranty at least two (2) years - Price is inclusive of government duties taxes and other fees - Delivery: Thirty (30) days upon issuance of NTP				
3	<b>Beacon</b> Specifications: - Color: Amber - Material: Polycarbonate base & dome - Dimensions: 6X6X4" (LxWxh) - Polarity: Reverse - Flash patterns: 70FPM pulse, 8 patterns - Mount: 3-bolt - Voltage: 12-80VDC - Amps: 2.7 - Approval: SAE J845 Class III, CE, R10, UL - Operating Range: 22F to 122F-60C to 50C - Warranty: At least 1 year - Price inclusive of government duties taxes and other fees - Delivery: Thirty (30) days upon issuance of NTP	4	set	7000.00	28,000.00

**TOTAL APPROVED BUDGET FOR THE CONTRACT:**

**Php 312,000.00**

**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.