



ASTI-FM 03-10  
REV 2 / 13 MAR 2019

**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-18-2019, 2:00 PM	
<b>RFQ No.:</b> 19-10-2872	<b>Date:</b> October-14-2019
<b>PR No.:</b> GRASPED-19-09-8633	<b>Date:</b> September-19-2019

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,

  
**PAUL JOHN M. SERRANO**  
Chairperson, BAC-2

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<b>Lora Transceiver</b> Low power, long range transceiver Protocol: LoRa Modulation: FSK, GFSK, GMSK, MSK, OOK Frequency Frequency : 868MHz Data Rate : up to 300kbps Transmit power: 17dBm Sensitivity : -123dBm Serial Interfaces : SPI Supply voltage: 1.8V to 3.7V Current (during receiving) : 10.8mA ~ 12.1mA Current (during transmitting): 20mA ~ 120mA Mounting Type :Surface Mount Operating Temperature : -20°C ~ 70°C Package / Case :16-SMD Module Delivery: not later than Nov.30, 2019	10	unit	1300.00	13,000.00
2	<b>High Tx Power LORA Transceiver</b> Low power, long range transceiver (with high tx power) Protocol: LoRa Modulation: FSK, GFSK, GMSK, MSK, OOK Frequency Frequency : 868MHz Data Rate : up to 300kbps Transmit power: 27dBm Sensitivity : -136dBm Serial Interfaces : SPI	5	unit	1700.00	8,500.00

	<p>RX current:13mA  Mounting Type :Surface Mount  Operating Temperature : -20°C ~ 70°C  Package / Case :SMD Module  Delivery: not later than Nov.30, 2019</p>				
3	<p><b>WiFi/Bluetooth Module</b>  WiFi RF certification:  FCC/CE/IC/TELEC/KCC/SRRC/NCC  WiFi Protocols: 802.11 b/g/n/e/i (802.11n up to 150 Mbps) A-MPDU and A-MSDU aggregation and 0.4 μs guard interval support  Bluetooth Protocols: Bluetooth v4.2 BR/EDR and BLE specification  Bluetooth Radio: NZIF receiver with -97 dBm sensitivity Class-1, class-2 and class-3 transmitter  Frequency range: 2.4 ~ 2.5 GHz  Module interface: SD card, UART, SPI, SDIO, I2C, LED PWM, Motor PWM, I2S, I2C, IR GPIO, capacitive touch sensor, ADC, DAC, LNA preamplifier  On-chip sensor: Hall sensor, temperature sensor  On-board clock: 40 MHz crystal  Operating voltage/Power supply: 2.3 ~ 3.6V  Operating current Average: 80 mA Minimum current delivered by power supply 500 mA  Operating temperature range: -40°C ~ +85°C  Wi-Fi mode: Station/SoftAP/SoftAP+Station/P2P  Security: WPA/WPA2/WPA2-Enterprise/WPS  Encryption: AES/RSA/ECC/SHA  Firmware upgrade: UART Download / OTA (via network) / download and write firmware via host  Software development: Supports Cloud Server Development / SDK for custom firmware development  Network protocols: IPv4, IPv6, SSL, TCP/UDP/HTTP/FTP/MQTT  User configuration: AT instruction set, cloud server, Android/iOS app  Delivery: not later than Nov.30, 2019</p>	5	unit	800.00	4,000.00
4	<p><b>Temp + Humidity + Pressure sensor Module PTH Sensor Module</b>  Humidity Measurement Accuracy: +/- 3%  Barometric Pressure Measurement Accuracy: +/- 1 hPa  Temperature Measurement Accuracy: +/- 1 deg celsius  Interfacing: I2C or SPI  Delivery: not later than Nov.30, 2019</p>	2	unit	1950.00	3,900.00
5	<p><b>AC Power Analyzer Module</b>  Operation Voltage: 100V- 240V AC, 60 Hz  Current Capacity: 20A continuous</p> <p>Measurements:  - Volt RMS  - Amp RMS  - Real Power  - Apparent Power  - Reactive Power  - Fundamental Power  - Fundamental Reactive Power  - Harmonic Power  - Power Factor</p>	3	unit	1455.00	4,365.00

	<p>- Watt Hour</p> <p>Opto-isolated interface port:  - UART TX  - UART RX</p> <p>Non-isolated interface port:  - UART TX  - UART RX  - +5V</p> <p>includes: acrylic casing  Delivery: not later than Nov.30, 2019</p>				
6	<p><b>30 W Basestation Power LDMOS Transistor</b>  30 Watts power rating  Usable Frequency Range from 616 MHz to 960 MHz  Voltage Supply Rating of 50 V, maximum: 105 V  Can withstand all phases of load mismatch VSWR = 10:1 at 25 Watts output power  Thermal resistance from junction to case of less than 2.5 K/W  Power gain &gt; 17 dB  Integrated ESD protection  Delivery: not later than Nov.30, 2019</p>	5	unit	3000.00	15,000.00
7	<p><b>Trimmer / Variable Capacitors Parascan</b>  Product Category: Trimmer / Variable Capacitors  20 pieces of Capacitance Range: 1.53 pF to 10.86 pF  20 pieces of Capacitance Range: 0.56 pF to 3.58 pF  20 pieces of Capacitance Range: 1.35 pF to 1.65 pF  Tolerance: 10 %  Termination Style: SMD/SMT  Minimum Operating Temperature: - 30 C  Maximum Operating Temperature: + 85 C  Length: 0.9 mm  Width: 0.61 mm  Height: 0.3 mm  Series: STPTIC-82C4  Q Minimum: 65  Type: Tunable Capacitor  Voltage Rating DC: 24 V  Product Type: Trimmer / Variable Capacitors  Subcategory: Capacitors  Test Frequency: 700 MHz  Delivery: not later than Nov.30, 2019</p>	1	unit	4860.00	4,860.00
8	<p><b>Capacitor Kit 1</b>  Capacitance Range: 0.1pF ~ 5pF  Packaging: Binder  Kit type: Ceramic  Mounting type: SMT, MLCC  Voltage-Rated: 50V  Tolerance: (+-)0.1pF  Applications: RF, Microwave, High Frequency  Features: High Q, Low Loss  Quantity: 1000 pcs. (50 values - 20 each)  Capacitor packages: 0402(1005 Metric)  Delivery: not later than Nov.30, 2019</p>	1	set	9450.00	9,450.00
9	<p><b>Capacitor Kit 2</b></p>	1	set	8550.00	8,550.00

	<p>Capacitance Range: 5.1pF ~ 47pF  Packaging: Binder  Kit type: Ceramic  Mounting type: SMT, MLCC  Voltage-Rated: 50V  Tolerance: (+-)0.1pF, 5%  Applications: RF, Microwave, High Frequency  Features: High Q, Low Loss  Quantity: 1260 Pieces (63 Values - 20 Each)  Capacitor packages: 0402(1005 Metric)  Delivery: not later than Nov.30, 2019</p>				
10	<p><b>Inductor Kit</b>  Packaging: Notebook  Kit type: Fixed  Inductance Range: 2.2nH~4.7uH  Mounting type: SMT  Style: Wirewound  Material-Core: Air, Non-Magnetic  Quantity: 640 pcs. (64 values - 10 each)  Capacitor packages: 0603,0805,1008  Shielding: Unshielded  Delivery: not later than Nov.30, 2019</p>	1	set	13200.00	13,200.00
11	<p><b>Copper tape</b>  Type: Shielding Tape  Length: 18.000' (5.50m)  Width: 0.500" (12.70mm)  Thickness - Overall: 0.004" (0.09mm)  Adhesive: Non-Conductive, Single Sided  Material: Copper Foil  Delivery: not later than Nov.30, 2019</p>	5	roll	750.00	3,750.00
12	<p><b>Inductor Set</b>  -1 pc 15uH (1005 packaging)  -1 pc 15uH (1608 packaging)  Delivery: not later than Nov.30, 2019</p>	20	set	174.00	3,480.00
13	<p><b>Capacitor Set</b>  1 pc 1uF (0603 packaging)  1 pc 33nF (1005 packaging), 50 V rating  1 pc 100 pF (0603 packaging), 50 V rating  Delivery: not later than Nov.30, 2019</p>	20	set	22.50	450.00
14	<p><b>BST Capacitance Controller</b>  Modes: Turbo, Glide  Operating Frequency: up to 52 MHz  Supply Voltage (Max): 5V  Supply Voltage (Min): 2.3V  Operating Supply Current: 340 uA  Package/Case: Flip-Chip 12  Mounting Style: SMD/SMT  Max Oper. Temp. : 85 deg. C  Min Oper. Temp.: -30 deg. C  Delivery: not later than Nov.30, 2019</p>	20	pc	75.00	1,500.00
<b>TOTAL APPROVED BUDGET FOR THE CONTRACT:</b>					<b>Php 94,005.00</b>
<b>GUIDELINES</b>					
<b>A. Submission of Quotations</b>					

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.

