



**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>	Sep-28-2021, 2:00 PM		
<b>RFQ No.:</b>	21-09-3553	<b>Date:</b>	September-23-2021
<b>PR No.:</b>	GRASPED-21-09-11990	<b>Date:</b>	September-06-2021

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>Mobile Transceiver with Programming Software and USB Cable</b></p> <p>1.0 General Features:</p> <p>1.1 Dual Receive on the same Band (UHF/VHF)</p> <p>1.2 1,000 Multifunction Memory Channels</p> <p>1.3 APRS Capable, Invertible Front Panel</p> <p>1.4 Multiple Scan, Wide reception:118-524 MHz, 800-1300 MHz</p> <p>1.5 MC-59 16-Key Hand Microphone with backlighting</p> <p>1.6 Programmable memory capable of storing 5 independent operating profiles</p> <p>1.7 DCS (Digital Code Squelch) with 104 selectable codes</p> <p>1.8 Separate VOL/SQL for A &amp; B Bands, Waypoint Data Output, Programmable Function Keys</p> <p>1.9 Cross-Band Repeat Capability, DTMF Memory (10 channels,16 digits)</p> <p>1.10 Time Out Timer, Key Lock, Power-on Password, Memory Shift</p> <p>1.11 Switch to External Speaker, Reset (VFO, PART, PM, FULL)</p> <p>2.0 Technical Specification:</p> <p>2.1 Mode: F1D, F2D, F3E</p> <p>2.2 Antenna impedance = 50 ohms</p> <p>2.3 Power Requirement = 13.8 Vdc @ +/- 15%</p>	1	set	70000.00	70,000.00

- 2.4 Operating Temperature = -20 deg C to + 60 deg C
- 2.5 Frequency Stability = within +/- 5ppm ( -10 deg C to + 50 deg C)
- 2.6 Current Consumption TX (VHF/UHF) = at least 4A to 13A
- 2.7 Interface: 6-pin Mini-DIN Socket for External TNC, 8-pin Mini-DIN Socket for PC Connection (optional programming cable PG-5G or PG-5H required for PC connection)
- 2.8 RF Transmit Power (UHF/VHF) = at least 50 W
- 2.9 Modulation = Reactance Modulation
- 2.10 Maximum Frequency Deviation = at least within +/-5KHz
- 2.11 Modulation Distortion = at least 3% @ 300Hz to 3KHz
- 2.12 Microphone Impedance = 600 ohms
- 2.13 Receiver Sensitivity (VHF/UHF) = less than -16dBu (0.16 micro volt)
- 2.14 Squelch Sensitivity (VHF/UHF) = less than -20dBu (0.1 micro volt)
- 2.15 Selectivity = -6dB @ more than 11KHz and -50dB @ less than 30KHz
- 2.16 Audio Output (8 ohms) = more than 2W @ 5% distortion
  
- 3.0 Included Software
- 3.1 Capable of setting memory channels and other radio menu parameters
- 3.2 Compatible with Alinco, Baofeng, ICOM, Kenwood or Yaesu radios
- 3.3 Compatible with Windows 7, 8, 8.1, 10
  
- 4.0 Accessories
- 4.1 USB K5G Cable
  
- 5.0 Notes
- 5.1 Charged to GRASPED
- 5.2 Price inclusive of government fees, taxes, and duties
- 5.3 Delivery terms: Item must be delivered to ASTI sixty (60) calendar days upon issuance of Notice to Proceed
- 5.4 Warranty: at least one year

2	<p><b>Software Define Radio</b></p> <p>1.0 Technical Specification</p> <p>1.1 Operating Frequency: atleast 1 MHz to 6 Ghz</p> <p>1.2 half-duplex transceiver</p> <p>1.3 8-bit quadrature samples (8-bit I and 8-bit Q)</p> <p>1.4 supported sample rates: 2Msps to 20Msps</p> <p>1.5 interface: High Speed USB (with USB Micro-B connector)</p> <p>1.6 power supply: USB bus power</p> <p>1.7 software-controlled antenna port power (max 50 mA at 3.3 V)</p> <p>1.8 SMA female antenna connector (50 ohms)</p> <p>1.9 SMA female clock input and output for synchronization</p> <p>1.10 portable</p> <p>1.11 open source</p>	2	set	30000.00	60,000.00
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	<p>2.0 Notes</p> <p>2.1 Charged to GRASPED</p> <p>2.2 Price inclusive of government fees, taxes, and duties</p> <p>2.3 Delivery terms: Item must be delivered to ASTI sixty (60) calendar days upon issuance of Notice to Proceed</p> <p>2.4 Warranty: at least one year</p>				
3	<p><b>Cognitive radio with enclosure</b></p> <p>1.0 Technical Specification:</p> <p>1.1 Operating Frequency range: at least 70 MHz to 6 GHz</p> <p>1.2 Channels: 1TX, 1RX</p> <p>1.2 Instantaneous Bandwidth: up to 56 MHz</p> <p>1.3 Power Output: &gt; 10 dBm</p> <p>1.4 RX Noise Figure: &lt; 8dB</p> <p>1.5 Power requirement: USB Power @ 5V</p> <p>1.6 USRP hardware Driver at least 3.9.2</p> <p>1.7 Synchronization: 10 MHz clock reference (PPS time reference)</p> <p>1.8 Compatible with the GNU radio</p> <p>1.9 ADC Sample Rate (Max.): 61.44 MS/s</p> <p>1.10 ADC Resolution: 12 bits</p> <p>1.11 DAC Sample Rate (Max.): 61.44 MS/s</p> <p>1.12 DAC Resolution: 12 bits</p> <p>1.13 Host Sample Rate (16b): 61.44 MS/s</p> <p>1.14 Frequency Accuracy: +/-2.0 ppm</p> <p>2.0 Accessories</p> <p>2.1 Enclosure Kit</p> <p>2.2 USB 3.0 cable</p> <p>3.0 Notes</p> <p>3.1 Charged to GRASPED</p> <p>3.2 Price inclusive of government fees, taxes, and duties</p> <p>3.3 Delivery terms: Item must be delivered to ASTI sixty (60) calendar days upon issuance of Notice to Proceed</p> <p>3.4 Warranty: at least one year</p>	2	set	91000.00	182,000.00
4	<p><b>UHF/VHF Eggbeater antenna system with cross boom arm</b></p> <p>1.0 Technical Specifications</p> <p>1.1 Antenna System 1</p> <p>1.1.1 Frequency range = 135 to 150 MHz</p> <p>1.1.2 Overhead gain = 5.5 dBic</p> <p>1.1.3 Impedance = 50 ohms</p> <p>1.1.4 VSWR = at least 2.0:1</p> <p>1.1.5 Pattern = Omnidirectional</p> <p>1.1.6 Polarity: RH circular overhead</p> <p>1.1.7 Power handling: at least 500W</p> <p>1.1.8 Sustainable wind: at least 100 MPH</p> <p>1.1.9 Physical Connector: SO-239</p> <p>1.1.10 Mounting: 2"</p> <p>1.2 Antenna System 2</p>	1	set	60000.00	60,000.00

	<p>1.2.1 Frequency range = 400 to 470 MHz  1.2.2 Overhead gain = 5.5 dBic  1.2.3 Impedance = 50 ohms  1.2.4 VSWR = at least 2.0:1  1.2.5 Pattern = Omnidirectional  1.2.6 Polarity: RH circular overhead  1.2.7 Power handling: at least 500W  1.2.8 Sustainable windspeed: at least 100 MPH  1.2.9 Physical Connector: N Type(female)  1.2.10 Mounting: 1-1/2" to 2"</p> <p>1.3 Cross boom Arm  - 1-1/4" to 2" mast to mount all necessary hardware</p> <p>2.0 Notes  2.1 Charged to GRASPED  2.2 Price inclusive of government fees, taxes, and duties  2.3 Delivery terms: Item must be delivered to ASTI sixty (60) calendar days upon issuance of Notice to Proceed  2.4 Warranty: at least one year</p>				
5	<p><b>Handheld Radios (APRS Capable)</b></p> <p>1.0 General Description:  1.1 RX coverag: 0.5MHz – 999.99MHz (A Band) / 108MHz – 580MHz (B Band)  1.2 Built-in high-sensitivity 66 channel GPS receiver  1.3 1200/ 9600bps APRS Data modem  1.4 Real Dual Band Operations (V+V, U+U, V+U, U+V) are available with two independent receivers and supports simultaneous C4FM digital monitoring for both the A and B bands (C4FM/C4FM standby).  1.5 Built-in Bluetooth  1.6 Batteries type: 1 Lithium-ion batteries required  1.7 Display Type: 320 x 240 dot matrix Full-Color TFT Touch Panel Display</p> <p>2.0 Notes  2.1 Charged to GRASPED  2.2 Price inclusive of government fees, taxes, and duties  2.3 Delivery terms: Item must be delivered to ASTI sixty (60) calendar days upon issuance of Notice to Proceed  2.4 Warranty: at least one year</p>	2	set	35190.00	70,380.00
6	<p><b>Power Amplifier</b></p> <p>1.0 General Description  1.1 Radio Frequency VHF Amplifier for extending the communication range  1.2 Portable, lightweight, wide coverage RF power amplifier for handheld radio equipment and is equally capable of amplifying both analog and digital signals.  1.3 Kit Includes the necessary cables and interface connectors</p> <p>2.0 Technical Specification:  2.1 Frequency Range = 136-174 MHz  2.2 Supply voltage = 13.8 VDC (±15%)  2.3 Current rating = 5.5 A maximum</p>	2	set	15000.00	30,000.00

- 2.4 RF input power = 2 – 6W (±10%)
- 2.5 RF output power = 20 – 40W
- 2.6 External Antenna Connector: SO-239
  
- 3.0 Accessories
- 3.1 Mobile Mounting Bracket & Screw set
- 3.2 Radio to Amplifier Antenna Cable (SMA Female to SMA Male)
- 3.3 Control Cable (K1 to K1)
- 3.4 User Manual
- 3.5 Speaker Microphone
- 3.6 Hanger
  
- 4.0 Notes
- 4.1 Charged to GRASPED
- 4.2 Price inclusive of government fees, taxes, and duties
- 4.3 Delivery terms: Item must be delivered to ASTI sixty (60) calendar days upon issuance of Notice to Proceed
- 4.4 Warranty: at least one year

**TOTAL APPROVED BUDGET FOR THE CONTRACT:**

**Php 472,380.00**

### **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.