



Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY

ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE



ASTI-FM 03-10  
REV 5/ 30 APR 2024

**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> |                        | April-15-2025; 2:00PM                           |                      |
| <b>RFQ No:</b>                         | <b>SSD-25-04-004</b>   | <b>Date</b>                                     | <b>April-10-2025</b> |
| <b>PR No:</b>                          | <b>GAA-25-03-20769</b> | <b>Date</b>                                     | <b>March-04-2025</b> |

The Department of Science and Technology (DOST) - Advanced Science and Technology Institute (ASTI), through its Bids and Awards Committee (BAC), intends to procure the enlisted item/s below. Bidders may submit a proposal on any of the lots or items, and evaluation will be undertaken on a per lot or item basis, except otherwise specified in the requirements. Award may be considered for prospective bidder/s proven to be the single/lowest calculated and responsive quotation among all other quotations. Guidelines on the format of quotations and eligibility documents are listed below. Kindly follow the prescribed GUIDELINES to avoid DISQUALIFICATION.

Quotations may be submitted 1) manually to the BAC Secretariat at G/F DOST-ASTI Bldg., UP Technology Park Complex, CP Garcia Ave., UP Campus, Diliman, Quezon City or 2) sent via electronic mail at bac-sec@asti.dost.gov.ph. For further information, please contact the BAC Secretariat at +63 2 8249-8500 loc. 1206/1212.

Thank you.

**JEFFREY A. ABOROT**  
BAC Chairperson

| NO. | TECHNICAL SPECIFICATIONS  | QTY | UNIT | UNIT PRICE(Php) | TOTAL PRICE(Php) |
|-----|---|-----|------|-----------------|------------------|
| 1   | <b>Hi Gain Lora Antenna (8dBi)</b>  | 5   | pc   | 6,900.00        | 34,500.00        |
|     | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) Pieces of Hi Gain Lora Antenna (8dBi) which will be part of prototype devices.</p> <p>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Material: FRP (Fiberglass)</p> <p>2.2. Average Gain: 8.0 +/-0.8dBi</p> <p>2.3. Frequency Range: 858-878MHz</p> <p>2.4. Radiation Pattern: Omni-directional</p> <p>2.5. Polarization: Linear polarization/ Vertical</p> <p>2.6. Impedance: 50 Ohm 2.7. Cable Type: RG-141 50Ohm</p> <p>2.8. Connector Type: N-J Double tooth connector</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> |     |      |                 |                  |

|          |   |          |            |                 |                  |
|----------|---|----------|------------|-----------------|------------------|
|          | <p>3.3. The Hi Gain Lora Antennas (8dBi) must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of Notice to Proceed (NTP).</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p>  |          |            |                 |                  |
| <b>2</b> | <b>Hi Gain Lora Antenna (5dBi)</b>  | <b>5</b> | <b>pc</b>  | <b>3,500.00</b> | <b>17,500.00</b> |
|          | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) Pieces of Antenna (5dBi) which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Material: FRP (Fiberglass)</p> <p>2.2. Average Gain: 5.0 +/-0.8dBi</p> <p>2.3. Frequency Range: 860-930MHz</p> <p>2.4. Radiation Pattern: Omni-directional</p> <p>2.5. Polarization: Linear polarization/ Vertical</p> <p>2.6. Impedance: 50 Ohm</p> <p>2.7. Cable Type: RG-141 50Ohm</p> <p>2.8. Connector Type: N-J Double tooth connector</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The Hi Gain Lora Antennas (5dBi) must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |          |            |                 |                  |
| <b>3</b> | <b>Meshtastic Starter Kit</b>   | <b>5</b> | <b>set</b> | <b>5,000.00</b> | <b>25,000.00</b> |
|          | 1. GENERAL OVERVIEW   |          |            |                 |                  |

|          |   |          |           |                 |                  |
|----------|---|----------|-----------|-----------------|------------------|
|          | <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) Sets of Meshtastic Starter Kit which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Core Module: Module must be compatible with NRF chips</p> <p>2.2. Frequency: 800MHz</p> <p>2.3. Meshtastic Client Role: has OLED display</p> <p>2.4. Meshtastic Tracker Role:</p> <p>2.4.1. Has GNSS location module</p> <p>2.4.2. has acceleration module</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The Meshtastic Starter Kit must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP. 4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |          |           |                 |                  |
| <b>4</b> | <b>GNSS Magnetic Mount Antenna</b>  | <b>2</b> | <b>pc</b> | <b>6,250.00</b> | <b>12,500.00</b> |
|          | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces of GNSS Magnetic Mount Antenna which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Parameter: L1 Band</p> <p>2.1.1. Frequency: 1599-1606 MHz</p> <p>2.1.2. Impedance: 50 Ohms</p> <p>2.1.3. Gain: Typ. 3.5 dBic (Zenith)</p> <p>2.1.4. Axial Ratio: Max 2.0. dB (Zenith)</p> <p>2.1.5. Polarization: RHCP</p> <p>2.2. Parameter: L2/E5b/B2I Band</p>   |          |           |                 |                  |

|          |   |          |           |                 |                  |
|----------|---|----------|-----------|-----------------|------------------|
|          | <p>2.1.1. Frequency: 1197-1249 MHz</p> <p>2.1.2. Impedance: 50 Ohms</p> <p>2.1.3. Gain: Typ. 0.0-2.0 dBic (Zenith)</p> <p>2.1.4. Axial Ratio: Max 2.0. dB (Zenith)</p> <p>2.1.5. Polarization: RHCP 2.3 Connector Type: SMA</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The GNSS Magnetic Mount Antenna must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |          |           |                 |                  |
| <b>5</b> | <b>LiFepo4 Battery (30Ah)</b>   | <b>5</b> | <b>pc</b> | <b>8,750.00</b> | <b>43,750.00</b> |
|          | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) Pieces of LiFepo4 Battery (30Ah) which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Capacity: 30 Ah (384 Wh)</p> <p>2.2. Max Discharge Rate: 20A</p> <p>2.3. Max Charging Rate: 20A</p> <p>2.4. Charging Voltage: 14.4.v</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The LiFepo4 Battery (30Ah) must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p>                                       |          |           |                 |                  |

|          |  |           |           |                 |                  |
|----------|--|-----------|-----------|-----------------|------------------|
|          | <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p>  |           |           |                 |                  |
| <b>6</b> | <b>Single Board Computer</b>   | <b>20</b> | <b>pc</b> | <b>1,650.00</b> | <b>33,000.00</b> |
|          | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Twenty (20) Pieces of Single Board Computers which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Speed: 1GHz</p> <p>2.2. RAM Capacity: 512MB</p> <p>2.3. Storage Interface: microSD</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The Single Board Computers must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |           |           |                 |                  |
| <b>7</b> | <b>Charge Controller (10A)</b>   | <b>5</b>  | <b>pc</b> | <b>4,000.00</b> | <b>20,000.00</b> |
|          | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Five (5) Pieces of Charge Controllers (10A) which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Rated Charge and Discharge Current: 10A</p> <p>2.2. Battery Voltage Range: 8 ~ 32V</p>   |           |           |                 |                  |

|   |   |    |    |        |          |
|---|---|----|----|--------|----------|
|   | <p>2.3. MPP Voltage Range: (Battery voltage +2V) ~ 36V</p> <p>2.4. Working Environment Temperature: -25°C ~ +45°C (100% input and output)</p> <p>2.5. Storage Temperature Range: -20°C ~ +70°C</p> <p>2.6. Enclosure: IP30</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The Charge Controllers (10A) must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |    |    |        |          |
| 8 | <b>DC-DC 12V to 5V Dual USB Output Power Adapter</b>  | 10 | pc | 337.50 | 3,375.00 |
|   | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of ten (10) pieces of DC-DC 12V to 5V Dual USB Output Power Adapter which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Input Voltage: DC 8V ~ 22V</p> <p>2.2. Output Voltage: 5V</p> <p>2.3. Output Current: 3A Max</p> <p>2.4. Operating Temperature: -40°C ~ +85°C</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The DC-DC 12V to 5V Dual USB Output Power Adapters must have at least one (1) year of warranty from the time of delivery which covers</p>  |    |    |        |          |

|           |   |          |             |                 |                  |
|-----------|---|----------|-------------|-----------------|------------------|
|           | <p>defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p><b>4. DELIVERY AND PAYMENT TERMS</b></p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p>  |          |             |                 |                  |
| <b>9</b>  | <b>Low Noise Amplifier</b>  | <b>3</b> | <b>unit</b> | <b>5,000.00</b> | <b>15,000.00</b> |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Three (3) Units of Low Noise Amplifier which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p><b>2. TECHNICAL SPECIFICATIONS</b></p> <p>2.1. Power Connector Type: USB</p> <p>2.2. Connectivity Technology: USB, Radio Frequency</p> <p>2.3. Antenna: Radio</p> <p>2.4. Wideband (20MHz – 4GHz)</p> <p><b>3. WARRANTY AND AFTERSALES SUPPORT</b></p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The Low Noise Amplifiers must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p><b>4. DELIVERY AND PAYMENT TERMS</b></p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |          |             |                 |                  |
| <b>10</b> | <b>LoRa Transceiver</b>   | <b>3</b> | <b>pc</b>   | <b>7,500.00</b> | <b>22,500.00</b> |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Three (3) Pieces of LoRa Transceiver which will be part of prototype devices.</p>  |          |             |                 |                  |

|           |  |          |           |                  |                  |
|-----------|--|----------|-----------|------------------|------------------|
|           | <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. MCU: Must be compatible with NRF chips</p> <p>2.2. RAM: 2MB</p> <p>2.3. Frequency: 868MHz</p> <p>2.4. Bus Interfaces: UART, SPI, TWI, PDM, 12S, QSPI</p> <p>2.5. Wireless Connectivity: Bluetooth 5, Thread, Bluetooth Mesh, ANT, 802.15.4, Zigbee</p> <p>With/Without BME280 temperature pressure sensor</p> <p>2.6. SX1262 LoRa Transceiver: Long Range, Low Power Global frequency coverage 433, 868, 915Mhz</p> <p>2.7. Enclosure material: ABS</p> <p>2.8. Battery Capacity: 850mAh</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The LoRa Transreceivers must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |          |           |                  |                  |
| <b>11</b> | <b>Software Defined Radio</b>  | <b>2</b> | <b>pc</b> | <b>25,000.00</b> | <b>50,000.00</b> |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces of Software Defined Radio which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Frequency range: 1kHz to 2GHz</p> <p>2.2. Can monitor up to 10MHz</p> <p>2.3. Multiplatform driver and API support including Windows, Linux, Mac, Android and Raspberry Pi 4/5</p>  |          |           |                  |                  |



|           |  |          |           |                  |                  |
|-----------|--|----------|-----------|------------------|------------------|
|           | <p><b>3. WARRANTY AND AFTERSALES SUPPORT</b></p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The Software Defined Radio must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p><b>4. DELIVERY AND PAYMENT TERMS</b></p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p>   |          |           |                  |                  |
| <b>12</b> | <b>Software Defined Radio</b>  | <b>2</b> | <b>pc</b> | <b>17,500.00</b> | <b>35,000.00</b> |
|           | <p><b>1. GENERAL OVERVIEW</b></p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces of Software Defined Radio which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p><b>2. TECHNICAL SPECIFICATIONS</b></p> <p>2.1. CPU Speed: 1.5 GHz</p> <p>2.2. Connectivity Technology: USB, GPIO</p> <p>2.3. Operating System: Linux-based OS</p> <p>2.4. Wireless Compatibility: Radio Frequency</p> <p>2.5. Compatible Devices: Raspberry Pi 4/4B</p> <p><b>3. WARRANTY AND AFTERSALES SUPPORT</b></p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The Software Defined Radio must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p><b>4. DELIVERY AND PAYMENT TERMS</b></p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> |          |           |                  |                  |

|           |  |          |           |                  |                  |
|-----------|--|----------|-----------|------------------|------------------|
|           | 4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.   |          |           |                  |                  |
| <b>13</b> | <b>SDR HAT</b>   | <b>2</b> | <b>pc</b> | <b>16,500.00</b> | <b>33,000.00</b> |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of Two (2) Pieces of SDR HAT which will be part of prototype devices.</p> <p>1.2. The ABC is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Two Tx/Rx SDR Channels</p> <p>2.1.1. Channel 1: 30 MHz to 6 GHz</p> <p>2.1.2. Channel 2: Sub-1-GHz</p> <p>2.2. Maximum Sampling Rate: 4 MSPS</p> <p>2.3. ADC/DAC Resolution: 13-bit</p> <p>2.4. Bus/Interface: Form Factor must be compatible with 40-pins of Raspberry Pi</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The SDR HAT must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of NTP.</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |          |           |                  |                  |
| <b>14</b> | <b>HDMI Male to HDMI Male (2.0m)</b>   | <b>5</b> | <b>pc</b> | <b>655.00</b>    | <b>3,275.00</b>  |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of five (5) pieces of HDMI Male to HDMI Male (2.0m) which will be used by COMPASS Project.</p> <p>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p>  |          |           |                  |                  |

|           |   |          |           |               |                 |
|-----------|---|----------|-----------|---------------|-----------------|
|           | <p>2.1. Connector: HDMI Standard<br/>2.2. Version: HDMI 2.1<br/>2.3. Length: 2 meters<br/>2.4. Resolution: 8K @ 60Hz<br/>2.5. Conductor: Pure Copper</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.<br/>3.2. The end-user must be able to request technical support by phone, email, or through a website.<br/>3.3. The HDMI Male to HDMI Male (2.0m) must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of Notice to Proceed (NTP).<br/>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |          |           |               |                 |
| <b>15</b> | <b>HDMI Switch</b>  | <b>5</b> | <b>pc</b> | <b>675.00</b> | <b>3,375.00</b> |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of five (5) pieces of HDMI Switch which will be used by COMPASS Project.<br/>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Resolution: 4K @ 30Hz<br/>2.2. Material: PC + ABS<br/>2.3. HDMI Version: 1.4b<br/>2.4. Modes: 2 in 1 out / 1 in 2 out</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.<br/>3.2. The end-user must be able to request technical support by phone, email, or through a website.<br/>3.3. The HDMI Switch must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p>                               |          |           |               |                 |

|           |   |           |           |               |                 |
|-----------|---|-----------|-----------|---------------|-----------------|
|           | <p><b>4. DELIVERY AND PAYMENT TERMS</b></p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of Notice to Proceed (NTP).</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p>   |           |           |               |                 |
| <b>16</b> | <b>USB 4-Port Adapter</b>   | <b>10</b> | <b>pc</b> | <b>700.00</b> | <b>7,000.00</b> |
|           | <p><b>1. GENERAL OVERVIEW</b></p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of ten (10) pieces of USB 4-Port Adapter which will be used by COMPASS Project.</p> <p>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges.</p> <p><b>2. TECHNICAL SPECIFICATIONS</b></p> <p>2.1. Transfer speed: Up to 5Gbps</p> <p>2.2. Compatible with USB 3.0</p> <p><b>3. WARRANTY AND AFTERSALES SUPPORT</b></p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The USB 4-Port Adapter must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p><b>4. DELIVERY AND PAYMENT TERMS</b></p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of Notice to Proceed (NTP).</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |           |           |               |                 |
| <b>17</b> | <b>USB Wireless Adapter</b>   | <b>10</b> | <b>pc</b> | <b>800.00</b> | <b>8,000.00</b> |
|           | <p><b>1. GENERAL OVERVIEW</b></p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of ten (10) pieces of USB Wireless Adapter which will be used by COMPASS Project.</p> <p>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges.</p> <p><b>2. TECHNICAL SPECIFICATIONS</b></p>  |           |           |               |                 |

|           |   |           |           |               |                 |
|-----------|---|-----------|-----------|---------------|-----------------|
|           | <p>2.1. With Antenna<br/>2.2. Wireless Network: Wifi N (802.11 b/g/n/ac)<br/>2.3. Modem Connectivity Speed: up to 650Mbps<br/>2.4. Interface: USB</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.<br/>3.2. The end-user must be able to request technical support by phone, email, or through a website.<br/>3.3. The USB Wireless Adapter must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of Notice to Proceed (NTP).<br/>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p>   |           |           |               |                 |
| <b>18</b> | <b>Fast Charging Micro USB Cable</b>  | <b>20</b> | <b>pc</b> | <b>200.00</b> | <b>4,000.00</b> |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of twenty (20) pieces of Fast Charging Micro USB Cable which will be used by COMPASS Project.<br/>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Length: 0.5 meter<br/>2.2. Compatibility: Compatible with most devices<br/>2.3. Nylon braided cable</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.<br/>3.2. The end-user must be able to request technical support byphone, email, or through a website.<br/>3.3. The Fast Charging Micro USB Cables must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> |           |           |               |                 |

|           |  |           |           |                 |                 |
|-----------|--|-----------|-----------|-----------------|-----------------|
|           | <p>4.1. The goods must be delivered sixty (60) days upon issuance of Notice to Proceed (NTP).</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p>  |           |           |                 |                 |
| <b>19</b> | <b>USB to RS485 Converter with Original FT232RL Inside</b>   | <b>5</b>  | <b>pc</b> | <b>1,550.00</b> | <b>7,750.00</b> |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of five (5) pieces of USB to RS485 Converter with Original FT232RL Inside which will be used by COMPASS Project.</p> <p>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges.</p> <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Host port: USB</p> <p>2.2. Device port: RS485</p> <p>2.3. USB Operating voltage: 5V</p> <p>2.4. USB Connector: USB-A</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.</p> <p>3.2. The end-user must be able to request technical support by phone, email, or through a website.</p> <p>3.3. The USB to RS485 Converters must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of Notice to Proceed (NTP).</p> <p>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |           |           |                 |                 |
| <b>20</b> | <b>SD Card</b>   | <b>20</b> | <b>pc</b> | <b>400.00</b>   | <b>8,000.00</b> |
|           | <p>1. GENERAL OVERVIEW</p> <p>1.1. DOST-ASTI is seeking qualified and competent bidders for the Supply and Delivery of twenty (20) pieces of SD Cards which will be used</p> <p>1.2. The Approved Budget for the Contract (ABC) is inclusive of government taxes and all applicable charges.</p>   |           |           |                 |                 |

|   |  |  |  |  |                      |
|---|--|--|--|--|----------------------|
|   | <p>2. TECHNICAL SPECIFICATIONS</p> <p>2.1. Memory Card Type: microSD<br/>2.2. Storage Capacity: 32 GB (120 mb/s)</p> <p>3. WARRANTY AND AFTERSALES SUPPORT</p> <p>3.1. Any repair or replacement service must be successfully done within thirty (30) calendar days upon receipt of notice from DOST-ASTI.<br/>3.2. The end-user must be able to request technical support by phone, email, or through a website.<br/>3.3. The SD Cards must have at least one (1) year of warranty from the time of delivery which covers defects in materials and workmanship. Warranty service shall commence from the date of end-user acceptance.</p> <p>4. DELIVERY AND PAYMENT TERMS</p> <p>4.1. The goods must be delivered sixty (60) days upon issuance of Notice to Proceed (NTP).<br/>4.2. Full payment will only be processed once the item is completely delivered, inspected, and accepted by the end-user. No payment shall be made for items not delivered under this contract.</p> |  |  |  |                      |
| <b>TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):</b>  |  |  |  |  | <b>Php386,525.00</b> |
| <b>GUIDELINES</b>   |  |  |  |  |                      |
| <p><b>A. Content and Format of Quotations</b></p> <p>1<br/> . The Quotation/s must include the RFQ Number or the PR Number indicated above</p> <p>2<br/> . Bidders must specify the <b>BRAND NAMES</b> and <b>MODEL NAMES/NUMBER</b> for the following goods:</p> <p>a. Computer and electronic equipment and its accessories or peripherals<br/> b. Software applications, programs, and digital licenses<br/> c. Commercial off-the-shelf electronic devices or components</p> <p>3<br/> . The Quotation/s must indicate the registered business name of the company (or individual), business address and contact number. It must also include the full name and signature of the company's authorized representative.</p> <p>4<br/> . BIR Certificate of Registration for new DOST-ASTI suppliers</p> <p><b>B. Eligibility Requirements</b></p> <p><i>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, 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):</i></p> <p><b><u>For Procurement of Goods</u></b></p> <p>1<br/> . Upon submission of quotation</p> |  |  |  |  |                      |

- a. *Valid PhilGEPS Registration Number / Organization ID*
- b. *Valid Mayor's/Business Permit*

2

- . Upon issuance of Notice of Award (NOA)
  - a. *Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)*
  - b. *Income/Business Tax Return (For ABCs above P500,000.00)*

### **For Procurement of Infrastructure**

1

- . Upon submission of quotation
  - a. *Valid PhilGEPS Registration Number / Organization ID*
  - b. *Valid Mayor's/Business Permit*
  - c. *Valid PCAB License*

2

- . Upon issuance of NOA
  - a. *Omnibus Sworn Statement (shall be required only for procurement projects with ABC above P50,000.00)*
  - b. *Income/Business Tax Return (For ABCs above P500,000.00)*

*\*Requirements under Section 53.6 (Scientific, Scholarly or Artistic Work, Exclusive Technology and Media Services) of the revised IRR of RA No. 9184 will not apply to artists such as singer, performer, poet, writer, painter and sculptor who are engaged in business.*

*\*\*Requirements under Section 53.10 (Lease of Real Property or Venue) of the revised IRR of RA No. 9184, specifically Mayor's/Business Permit, PhilGEPS Registration Number and Income/Business Tax Return will not apply to government*

*agencies as lessors*

*\*\*\*For methods of procurement requiring Mayor's Permit and PhilGEPS Registration Number, valid Certificate of Platinum*

*Membership may be submitted in lieu of the said documents.*

### **C. Terms and Conditions**

1. *Additional requirements, if necessary, may be requested by the BAC depending on the item to be bid;*
2. *All transactions are subject to creditable withholding tax and final Value Added Tax or percentage tax per revenue regulation/s of the BIR;*
3. *Liquidated damages of at least equal to one-tenth of one percent (0.001) of the cost of the unperformed portion for every day of delay shall be imposed by the DOST-ASTI pursuant to Section 68 of the revised IRR of RA No. 9184; and*
4. *The DOST-ASTI reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.*