



ASTI-FM 03-10
REV 3/13 January 2020

**DOST-ASTI Bids and Awards Committee
REQUEST FOR QUOTATION**

Kind of Procurement Activity:	Negotiated Procurement: Small-value Procurement		
Deadline of Submission of Bids:	Jun-15-2021, 2:00 PM		
RFQ No.:	21-06-3431	Date:	June-10-2021
PR No.:	GAA-21-05-11483	Date:	May-28-2021

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>UHF TV Transmitter Components Supply and Delivery of the following:</p> <p>1. Transmitter High Power Yagi Antenna - 2 units a. Frequency: 470-862MHz b. Gain: 11dBi c. Impedance: 50 Ohms d. Polarization: Dual Polarization/ Dual Linear e. Max power : 150W version or higher f. VSWR: <= 1.7 g. Horizontal beam-width: 60° h. Vertical beam-width: 40° i. Front-to-back ratio: ≥15 dB j. Connector: N-Type Female k. Lightning Protection: DC Ground l. Ingress Protection: IP65</p> <p>2. RF Antenna Lightning Protection – 3 units a. Frequency Range: 100-700MHz b. Impedance: 50 Ohms c. VSWR: <1.15 d. Return Loss: <-23dB e. Insertion Loss: <0.1dB f. Impulse Discharge Current (8/20us): 20KA g. Power Handling: 750W h. Protection Feature: DC-blocked</p>	1	lot	60000.00	60,000.00

	<p>i. Protection Side: N type Male connector on Protected side</p> <p>3. RF High Power Cable 10m – 2 rolls</p> <p>a. Impedance: 50 Ohms</p> <p>b. Power Handling: 5kW</p> <p>c. Frequency: 30MHz-5800MHz</p> <p>d. Capacitance: 24pF/m</p> <p>e. Shielding Efficiency: > 85 dB</p> <p>f. Length: 10m</p> <p>g. Interface: N-type Male to N-Type Male</p> <p>h. Cable Type: LMR200</p> <p>4. RF High Power Cable 20m – 4 rolls</p> <p>a. Impedance: 50 Ohms</p> <p>b. Power Handling: 5kW</p> <p>c. Frequency: 30MHz-5800MHz</p> <p>d. Capacitance: 24pF/m</p> <p>e. Shielding Efficiency: > 85 dB</p> <p>f. Length: 20m</p> <p>g. Interface: N-type Male to N-Type Male</p> <p>h. Cable Type: LMR200</p> <p>5. RF High Power Cable 30m- 2 rolls</p> <p>a. Impedance: 50 Ohms</p> <p>b. Power Handling: 5kW</p> <p>c. Frequency: 30MHz-5800MHz</p> <p>d. Capacitance: 24pF/m</p> <p>e. Shielding Efficiency: > 85 dB</p> <p>f. Length: 30m</p> <p>g. Interface: N-type Male to N-Type Male</p> <p>h. Cable Type: LMR200</p> <p>6. 48V Power Supply for 90W RF Power Amplifier - 2 units</p> <p>a. Output Voltage: 48VDC</p> <p>b. Output Current: 0.45A-4A</p> <p>c. Input AC: 220-240VAC, 60Hz</p> <p>7. 40dB High Power RF Attenuator - 2 pcs</p> <p>a. Frequency: DC-6GHz</p> <p>b. Impedance: 50 Ohms</p> <p>c. Attenuation: 40dB</p> <p>d. Insertion Loss: <=1dB</p> <p>e. Power Rating: = 100W</p> <p>f. VSWR: <= 1.3</p> <p>Delivery: 30 days upon issuance of Notice to Proceed (NTP)</p> <p>Warranty obligation: Five percent (5%)</p>				
2	<p>TV Receiver Antenna Components</p> <p>Supply and Delivery of the following:</p> <p>1. Rx Antenna- 3 units</p> <p>a. Gain: 12dBi</p> <p>b. Frequency range: 470-862 MHz</p> <p>c. Power: 100W Variant</p> <p>d. Directionality: Vertical/Horizontal</p> <p>e. VSWR: <= 2</p> <p>f. Front to Back Ratio: 15</p>	1	lot	55000.00	55,000.00

- g. Input Impedance: 75 ohms
- h. Connector type: IEC F-type female
- i. Radiating elements: 9
- j. Horizontal 3dB beamwidth: 70 degrees
- k. Vertical 3dB beamwidth: 50 degrees

- 2. Rx Antenna Lightning Protection- 3 units
 - a. UHF Antenna Lightning Protection MCOV: 75-90V
 - b. Voltage Protection Level: Up to 600V
 - c. In (8/20us) : 20kA
 - d. I_{max} (8/20us) : 40kA
 - e. Reaction time: <=25ns
 - f. Maximum Transmission Power: 400W
 - g. VSWR: <= 1.2
 - h. Impedance : 75 Ohms
 - i. Insertion Loss: <=2.5dB
 - j. Frequency Range: DC-3GHz
 - k. Connector: F-Type
 - l. Cable Type: RG-6
 - m. Cable Length: 20-30m
 - n. Body Material: Brass
 - o. Ingress Protection Level : IP67

- 3. RF Cable 75 Ohms (50ft)- 5 pcs
 - a. RF cable 15.2m (50ft)
 - b. Length: 15.2m (50ft)
 - c. Connector: F-Type Plug to F-type plug
 - d. Impedance: 75 ohms
 - e. Cable Type: RG-6

- 4. RF Cable 75 Ohms (75ft)- 2 pcs
 - RF cable 22.9m (75ft)
 - Length: 22.9m (75ft)
 - Connector: F-Type Plug to F-type plug
 - Impedance: 75 ohms
 - Cable Type: RG-6

- 5. x86 Single Board Computer- 1 pc
 - a. Processor: 64bits Quad Core X86 Processor
 - b. Intel Atom x5-Z8350 Cherry Trail
 - c. Quad-core processor @ 1.44 GHz / 1.84 GHz (Turbo)
 - d. Intel Gen8 HD graphics @ 500 MHz
 - e. Memory: LPDDR3
 - f. 64bit dual channel LPDDR3@1866Mb/s
 - g. 4GB
 - h. Storage: eMMC module (32GB)
 - i. with μ SD slot supports up to 128 GB
 - j. Display: HDMI 2.0 up to 4k@30
 - k. Audio:3.5mm jack with mic
 - l. HD codec that supports up to 24-bit/96KHz audio.
 - m. Wireless:802.11 ac wifi
 - n. Bluetooth 4.2
 - o. with on board antenna and external antenna support.
 - p. USB:USB 3.0 OTG X1, hardware switch for host/device switch, lower one USB 2.0 HOST X3
 - q. Ethernet: GbE LAN
 - r. IO:40-pin expansion header
 - 2 x UART
 - 2 x SPI bus
 - 2 x I2C bus

- 1 x PCM/I2S
- 1 x SPDIF
- 2 x PWM
- 1 x ADC
- 6 x GPIO
- 2 x 5V DC power in
- 2 x 3.3V DC power in
- s. Size:85mm x 54mm
- t. Others: power supply, antenna, Heat Sink

- 6. MicroSD Card for RockPI and RPI- 7 pcs
 - a. MicroSD Card Memory Capacity: 128GB
 - b. Type: MicroSDHC Card
 - c. Class: Class 10 UHS-I
 - d. Transfer Rate: 80MB/s
 - e. Waterproof
 - f. Shockproof

- 7. USB ISDB-T DIGITAL TV - 5 pcs
 - a. Input Signal: 75 Ohm PAL Connector
 - b. TV Standard: ISDBT
 - c. Receive FrequencyTV 48.25 ~ 863.25 MHz
 - d. Bandwidth6MHz
 - e. Max No. Section filtering32PIDS
 - f. Engine Software Stream capture PES & TS
 - g. Video Format mpg-II Main Profile & Main Level
 - h. Audio Format mpg-II Audio Layer I & II
 - i. feature: scheduled Recording, TimeShift & EPG
 - j. Host System Requirements: Mac: OS X 10.9 or later, 2,5 GHz Intel Core i5 (comparable or better) and at least 4GB RAM, Windows 8 or later, 2,5 GHz Intel Core i5 (comparable or better) and at least 4GB RAM
 - k. Android TV: Android 7.0 Nougat or higher
 - l. Android: Android OS 4.1 or higher
 - m. Linux: Below ubuntu 20.04.1_ker5.4.0
 - n. others: 1x Installation CD, 1x Installation Manual, 1x Antenna, 1x Remote control handset

- 8. Enclosure Box for ISDB-T USB Receiver Beta- 5 pcs
 - a. Dimensions: 115x90x55mm
 - b. Ingress Protection Level: IP65
 - c. Features: NEMA/NEMA4, Transparent Cover, Weatherproof

- 9. Power Adaptor for ISDB-T USB Receiver Beta- 5 pcs
 - a. Voltage Supply: 9VDC output
 - b. Current Rating: 3A
 - c. AC input: 100-240VAC, 60Hz
 - d. Output DC Jack Size: 5.5mm x 2.1mm
 - e. Cable Length: 1.5m

- 10. F-type to F-type Connector (F female to F female)- 20 pcs
 - a. Adapter: F female to F female
 - b. Impedance:75 Ohms
 - c. Max frequency: 2GHz
 - e. Style: Straight
 - f. Contact Plating: Tin

- 11. F-type to F-type Connector (F male to F male)- 10 pcs.

- a. Adapter: F male to F male
- b. Impedance: 75 Ohms
- c. Max frequency: 2GHz
- d. Style: Straight
- e. Contact Plating: Nickel

Delivery: 30 days upon issuance of Notice to Proceed (NTP)

Warranty obligation: Five percent (5%)

TOTAL APPROVED BUDGET FOR THE CONTRACT:

Php 115,000.00

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.