



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

Kind of Procurement Activity:	Negotiated Procurement:Small-value Procurement		
Deadline of Submission of Bids:	Jun-06-2022, 2:00 PM		
RFQ No.:	22-06-3883	Date:	June-01-2022
PR No.:	REIINN-22-04-13659	Date:	April-29-2022

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.

BAYANI BENJAMIN R. LARA
BAC Chairperson

NO.	TECHNICAL SPECIFICATIONS	QTY	UNIT	UNIT PRICE(Php)	TOTAL PRICE(Php)
1	<p>Connectorized RF Power Amplifier for LTE Band 71</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. The Advanced Science and Technology Institute (ASTI) is seeking qualified and competent bidders for the supply and delivery of two (2) Connectorized RF Power Amplifier for LTE Band 71 unit.</p> <p>1.2. Said unit shall be used to convert a low-power RF signal into a higher signal prior to transmission.</p> <p>1.3. The approved budget for the contract is inclusive of all applicable government taxes and services charges.</p> <p>1.4. The technical specifications written herein are of minimum requirement, otherwise stated.</p> <p>2. The supplier must abide and meet the following specifications of the equipment:</p> <p>2.1. Frequency Range: 600-2500MHz</p> <p>2.2. Amplifier Class: Class AB</p> <p>2.3. Gain: 50dB typical</p>	2	unit	290000.00	580,000.00

- 2.4. Gain Flatness: +-2dB
- 2.5. Max RF in = 0dBm
- 2.6. P1dB = +44dBm
- 2.7. P3dB = +46dBm
- 2.8. NF = 5.5dB
- 2.9. OIP3 = +52dBm
- 2.10. VSWR in = 1.3:1
- 2.11. VSWR out = 1.2:1
- 2.12. Power Supply : 28-29VDC, 6A max
- 2.13. Operating Temp: -20 to 60 degC
- 2.14. Feature: Covers Telecom Band 71

3. WARRANTY AND AFTER SALES SUPPORT

3.1. The units must carry one (1) year warranty for other parts and services that covered defects in materials and workmanship.

3.2. Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.

3.2.1. Defective units may be defined as units not working upon testing or units that have failed to work after testing within seven (7) calendar days from purchase.

3.3. End- users must be able to request technical support by phone or email. Moreover, technical support service should be available and can reached from Mondays to Fridays at 8am-5pm subject upon the availability of the aforementioned.

3.3.1. The end-user should receive feedbacks and responses from the third party twenty-four (24) hours after the inquiry or concern was made.

4. PAYMENT AND DELIVERY TERMS

4.1. Delivery of Goods and/or performance of services shall be made by the supplier on or before 24 June 2022 upon issuance of Notice to Proceed.

4.2. The Connectorized RF Power Amplifier for LTE Band 71 unit must be brand new and unused.

4.3. Payment shall be made only upon certification/acceptance by End User to the effect that the Goods have been rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted. No payment shall be made for services not yet rendered or for the supplies and material not yet delivered under this Contract.

4.4. The price of the bid must be inclusive of government tax and

	fees.				
2	<p>LTE Band 71 Duplexer</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. The Advanced Science and Technology Institute (ASTI) is seeking qualified and competent bidders for the supply and delivery of two (2) LTE Band 71 Duplexer units.</p> <p>1.2. Said unit shall be used to operate as a transmit antenna and receive antenna.</p> <p>1.3. The approved budget for the contract is inclusive of all applicable government taxes and services charges.</p> <p>1.4. The technical specifications written herein are of minimum requirement, otherwise stated.</p> <p>2. The supplier must abide and meet the following specifications of the equipment:</p> <p>2.1. Tx Passband: 617-652 MHz (Tx Port)</p> <p>2.2. Rx Passband: 663-698 MHz (Rx Port)</p> <p>2.3. Insertion Loss: 1.5 dB max</p> <p>2.4. Tx Path Rejection: 110 dB min (measured in Rx band)</p> <p>2.5. RX Path Rejection: 90 dB min (measured in Tx band)</p> <p>2.6. Return Loss, all ports: 20 dB min</p> <p>2.7. PIM (Intermod): -161 dBc (measured in Rx Block using two +43 dBm tones in Tx Block)</p> <p>2.8. Power Rating: 200W CW max. (1500W Peak Max)</p> <p>2.9. Impedance: 50 Ohms nominal</p> <p>2.10. Environment: -10°C to +65°C</p> <p>2.11. Finish: Connectors: 4.3-10 (F) Triplated</p> <p>2.12. Housing: Aluminum</p> <p>2.13. Weight, nom: 12.5 lb (5.7 kg)</p> <p>3. WARRANTY AND AFTER SALES SUPPORT</p> <p>3.1. The units must carry one (1) year warranty for other parts and services that covered defects in materials and workmanship.</p> <p>3.2. Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.</p> <p>3.2.1. Defective units may be defined as units not working upon testing or units that have failed to work after testing within seven (7) calendar days from purchase.</p> <p>3.3. End- users must be able to request technical support by phone or email. Moreover, technical support service should be available and can reached from Mondays to Fridays at 8am-5pm</p>	2	unit	168500.00	337,000.00

	<p>subject upon the availability of the aforementioned.</p> <p>3.3.1. The end-user should receive feedbacks and responses from the third party twenty-four (24) hours after the inquiry or concern was made.</p> <p>4. PAYMENT AND DELIVERY TERMS</p> <p>4.1. Delivery of Goods and/or performance of services shall be made by the supplier on or before 24 June 2022 upon issuance of Notice to Proceed.</p> <p>4.2. The LTE Band 71 Duplexer unit must be brand new and unused.</p> <p>4.3. Payment shall be made only upon certification/acceptance by End User to the effect that the Goods have been rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted. No payment shall be made for services not yet rendered or for the supplies and material not yet delivered under this Contract.</p> <p>4.4. The price of the bid must be inclusive of government tax and fees.</p>				
3	<p>Software Defined Radio</p> <p>1. GENERAL OVERVIEW</p> <p>1.1. The Advanced Science and Technology Institute (ASTI) is seeking qualified and competent bidders for the supply and delivery of one (1) portable software-defined radio unit.</p> <p>1.2. Said unit shall be used to test and measure radio frequency (RF) propagation.</p> <p>1.3. The approved budget for the contract is inclusive of all applicable government taxes and services charges.</p> <p>1.4. The technical specifications written herein are of minimum requirement, otherwise stated.</p> <p>2. The supplier must abide and meet the following specifications of the equipment:</p> <ul style="list-style-type: none"> 2.1. RF Capabilities: at least 1 x Tx, 1 x Rx 2.2. Frequency range: 70 MHz – 6 GHz 2.3. Instantaneous bandwidth: up to 56 MHz 2.4. Operation Mode: Full duplex 2.5. Processor: User-programmable Xilinx Spartan-6 FPGA 2.6. Connectivity and Power: USB 3.0, 5V 2.7. Synchronization: 10 MHz clock reference or PPS time reference 	1	unit	80000.00	80,000.00

2.8. Peripherals: GPIO, JTAG

2.9. Form Factor: 83.3 x 50.8 x 8.4 mm, Full Aluminum

Enclosure

2.10. Driver Support: USRP Hardware Driver (UHD)

open-source software API version 3.9.0 or later

3. WARRANTY AND AFTER SALES SUPPORT

3.1. The unit must carry one (1) year warranty for other parts and services that covered defects in materials and workmanship.

3.2. Replacement unit should be provided for defective units, fifteen (15) calendar days upon receipt of notice from End-users/DOST-ASTI Property and Supply Section.

3.2.1. Defective unit may be defined as units not working upon testing or units that have failed to work after testing within seven (7) calendar days from purchase.

3.3. End- users must be able to request technical support by phone or email. Moreover, technical support service should be available and can reached from Mondays to Fridays at 8am-5pm subject upon the availability of the aforementioned.

3.3.1. The end-user should receive feedbacks and responses from the third party twenty-four (24) hours after the inquiry or concern was made.

4. PAYMENT AND DELIVERY TERMS

4.1. Delivery of Goods and/or performance of services shall be made by the supplier on or before 24 June 2022 upon issuance of Notice to Proceed.

4.2. The portable software-defined radio unit must be brand new and unused.

4.3. Payment shall be made only upon certification/acceptance by End User to the effect that the Goods have been rendered or delivered in accordance with the terms of this Contract and have been duly inspected and accepted. No payment shall be made for services not yet rendered or for the supplies and material not yet delivered under this Contract.

4.4. The price of the bid must be inclusive of government tax and fees.

TOTAL APPROVED BUDGET FOR THE CONTRACT (ABC):

Php 997,000.00

GUIDELINES

A. Content and Format of Quotations

1. The Quotation/s must include the RFQ Number or the PR Number indicated above
2. Bidders must specify the BRAND NAMES and MODEL NAMES/NUMBER for the following goods:
 - a. Computer and electronic equipment and its accessories or peripherals
 - b. Software applications, programs, and digital licenses
 - c. Commercial off-the-shelf electronic devices or components
3. 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.
4. BIR Certificate of Registration for new DOST-ASTI suppliers.

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, 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
 - 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.