



Republic of the Philippines  
**DEPARTMENT OF SCIENCE AND TECHNOLOGY**  
**ADVANCED SCIENCE AND TECHNOLOGY INSTITUTE**



**PURCHASE ORDER**

ASTI - FM 03-17  
 REV 3 / 10 October 2023

Supplier:	JABTRONICS SOLUTIONS (JSI), INC.	PO No.:	24-09-207
Address:	Unit MS 405 Corinthian Executive Regency, Ortigas Ave., Ortigas Center, Pasig City	PO Date:	September 16, 2024
TIN:	008-202-575-000	Mode of Procurement:	NP-53.1 Two Failed Biddings

Gentleman:

Please furnish this Office the following articles subject to the terms and conditions contained herein:

Place of Delivery:	ASTI Bldg., C.P. Garcia Ave., U.P. Technology Park Complex, U.P. Campus, Diliman, Quezon City 1101	Delivery Term:	Fifty (50) calendar days upon issuance of NTP
Date of Delivery:	_____	Payment Term:	Government Terms
		Warranty Term:	_____

Stock / Property No.	Unit	Description	Quantity	Unit Cost	Amount
1	Lot	<p><b>SPECTRUM ANALYZER</b></p> <p>1.OVERVIEW</p> <p>1.1.The DOST-ASTI is looking for a qualified and competent Service provider for the Supply and Delivery of One (1) Lot Spectrum Analyzer to be used for Project testing and Deployment Activities</p> <p>1.2.The Approved Budget for the Contract is inclusive of all taxes and service charges.</p> <p>2.TECHNICAL REQUIREMENTS</p> <p>2.1.GENERAL SPECIFICATIONS</p> <p>2.1.1.Frequency Range: 9kHz to 9GHz</p> <p>2.1.2.Displayed Average Noise Level (DANL): -164 dBm or better (Preamp ON) in order for the spectrum analyzer to measure weak signals (RBW=1Hz)</p> <p>2.1.3.Spectral Purity-SSB Phase Noise: -123 dBc/Hz (maximum) @ 10 MHz</p> <p>2.1.4.Amplitude Accuracy: ± 1.3 dB (maximum) @ ≤ 9GHz</p> <p>2.1.5.Markers: Up to 12 Markers</p> <p>2.1.6.Display Type: Full Touchscreen (Capacitive) or with Keypad Combination, with Screen Protector</p> <p>2.1.7.Display Monitor: at least 10" for better viewing.</p> <p>2.1.8.Display Resolution: 1280 x 800 pixels for better resolution.</p> <p>2.1.9.Screen Strength IK08 (protected against a 5 joule impact)</p> <p>2.1.10.Display Features: Impact resistance and Touch Gestures Support</p> <p>2.1.11.Resolution Bandwidth (RBW): 1 Hz to 10 MHz</p> <p>2.1.12.Software: Graphical User Interface (GUI) Control from a PC with Report</p> <p>2.1.13.Generating Capability</p> <p>2.1.14.GPS Receiver: Satellite System</p>	1	₱3,050,000.00	₱3,050,000.00

Postal Address : ASTI Bldg., U.P. Technology Park Complex,  
 CP Garcia Ave., Diliman, Quezon City 1101  
 Website : www.asti.dost.gov.ph  
 Email : info@asti.dost.gov.ph

Tel No. : +632 8249-8500  
 +632 8426-9755



Supported

2.1.15.Audio Speaker: Internal, External

Headphone Supported

2.1.16.USB Cable Interface: any compatible

USB cable

2.1.17.Data Storage: Internal (8 GB); USB

Flash Drive or SD Card ( $\geq 1$  GB)

2.1.18.VSWR: 1.0 to 2.0 (typical)

2.1.19.Power Supply: AC/DC Power Supply,  
Car Power Adapter (DC/DC)

2.1.20.Connectors and Cables: Ethernet

Cable, SMA Plug to BNC Jack

2.1.21.Adapter with Cable

2.1.22.Battery: Lithium-ion (Li-Ion)

2.1.23.Battery Operation: At least two (2)  
hours Typical Instrument

2.1.24.Operation on Full Charge

2.1.25.Weight:  $\leq 6$  kg.

2.1.26.Carrying Case: Soft Case and Large  
Transit Case with Wheels and Handle

2.2.Inclusive of the following features:

2.2.1.INTERFERENCE FINDER and AM/FM  
AUDIO DEMODULATION FOR SPECTRUM  
ANALYZER

2.2.1.1.Setup: Integration Bandwidth,  
Power Limit, MAX/MIN Level, Volume Audio

2.2.1.2.Tone: 20 Hz to 20 kHz Demod

2.2.1.3.Frequency: Full Range of

Instrument

2.2.1.4.Audio Demodulation: AM, USB,

LSB, Wideband FM, Narrowband FM

2.2.1.5.Markers: Selectable

Demodulation Marker (1 to 12)

2.2.1.6.Audio: Toggle On/Off

2.2.1.7.Volume: 0% to 100%

2.2.1.8.Record Audio: Up to 100,000 s

2.2.1.9.Squelch Level: -120 dBm to +30

dBm

2.2.1.10.Interference Triangulation:

Triangulates on source of interference location using  
Compass and digital maps displayed on screen.

2.3.COVERAGE MAPPING FOR SPECTRUM  
ANALYZER

2.3.1.Measurements: Channel Power,  
Spectral Density, RSSI, Field Strength, Power Flux  
Density

2.3.2.Measurement Set-up Map Type: Indoor  
or Outdoor Frequency (Excluding RSSI):  
Center/Start/Stop, Frequency Step, Frequency  
Offset

2.3.3.Span (Excluding RSSI): Span  
(Manual/Increment 1, 2, 5), Full Span, Last Span,  
Zero Span

2.3.4.Amplitude: Reference Level  
(Manual/Auto and Offset), Scale/Division, Y-Axis  
Unit, Preamp (on/off), Attenuation (Auto/Manual),  
Field Strength Bandwidth: RBW/VBW (Auto/Manual),  
VBW Type (Linear/Logarithmic), RBW:VBW Ratio,  
SPAN:RBW Ratio Mapping Colors: Customizable  
Amplitude Range Threshold for each color Point



Distance or Time Set-up: Repeat Type (1s to 60s), or Distance (1 m to 10,000 m) Save: Setup, KML Points, PNG, Tab Delimited Recall: Setup, KML Points File, Measurement File (fmspa) Antenna: Portable (Rubber Duckie), Nominal Impedance: 50-ohm, Gain: 5dBi (typical), Antenna Kit; Adapter for Antenna Kit; 50Ω

#### 2.4.ANTENNA

2.4.1.Antenna: Directional, Log Periodic – at least 680MHz up to 10 GHz; Nominal Impedance: 50-ohm; Gain: 45dBi (typical) and with Antenna Casing GPS Antenna, Gain: 25dB Item no.2: Interference Hunter

#### 2.5.INTERFERENCE HUNTER

2.5.1.Bandwidth: 9 kHz to 6 GHz

2.5.2.Power: Preamp on 0.6 Watts, Preamp off 0.5 Watts

2.5.3.Preamplifier bandwidth: 10 MHz to 6 GHz

2.5.4.Electronic Compass: Powered from USB; Accuracy 5°, nominal; Interface USB

2.5.5.GPS Receiver: Satellites Tracked 12; GPS Locking Time Cold start: 30s; Warm start:

2.5.6.2s, Position Uncertainty ± 2 meter,

2.5.7.Environmental Operating Temperature -10°C to +55°C; Maximum Humidity 95 %; Altitude 4600 meters; Shock MIL-PRF-28800F Class 2; Storage -40°C to 71°C.

#### 3.TRAININGS

3.1.Inclusive of Free Theoretical and Field-Testing Training

3.2.The winning bidder should conduct a training/workshop about the operation and usage of the equipment to be procured. The training should be conducted within the prescribed delivery period (50 days upon receipt of NTP)

3.3.Estimated no. of participants: 10 persons

3.4. Duration: 1-3 days

3.5.Tentative Venue: DOST-ASTI

3.6.The schedule of training/workshop shall be agreed upon with the End-user.

3.7.All costs, including meals, rental of equipment/venue (if any), supplies (if any) and other requirements related to the training/workshop, will be shouldered by the winning bidder.

#### 4.SERVICE SUPPORT

4.1.Local Service Engineer must be available, capable, and knowledgeable in basic and minor repair and troubleshooting

#### 5.WARRANTY

5.1.Three (3) years for Spectrum Analyzer and One year for the battery

#### 6.Post Qualification

6.1.Trial testing within five (5) working days

#### 7.Delivery

7.1.Fifty (50) calendar days upon issuance of




	Notice to Proceed (NTP).		
	8. Others 8.1. It should be noted that the above listed specifications are minimum specifications. Bidders are encouraged to provide better specifications in their bids so long as it does not deviate too much from the intent of the original specifications.  (Please see attached offer.)		
		<b>TOTAL:</b>	<b>P3,050,000.00</b>
<b>(Total Amount in Words)</b>		<b>Three Million Fifty Thousand Pesos Only</b>	

The contract price is inclusive of taxes and other fees or charges. In case of failure to make the full delivery within the time specified above, a penalty of one-tenth (1/10) of one percent for every day of delay shall be imposed on the undelivered item/s. Once the cumulative amount of liquidated damages reaches ten percent (10%) of the amount of the contract, DOST-ASTI may rescind or terminate the contract, without prejudice to other courses of action and remedies available under the circumstances and in accordance with the provisions of the latest implementing rules and regulations of RA 9184.


Conforme:

Very Truly Yours,

\_\_\_\_\_  
(Signature over Printed Name of Supplier)

  
**FRANZ A. DE LEON, Ph.D.**  
\_\_\_\_\_  
Director, DOST-ASTI

\_\_\_\_\_  
(Date)

<b>Fund Cluster:</b>	<u>01</u>	<b>ORS / BURS No.:</b>	<u>06101012029 -09-000775</u>
<b>Funds Available:</b>	<u>Php 3,050,000.00</u>	<b>ORS / BURS Date:</b>	<u>SEPTEMBER 18, 2029</u>
		<b>Amount:</b>	<u>P 3,050,000.00</u>
 <b>GAY CONCEPCION S. BUGAGAO</b> _____ Accountant III			



16 September 2024

**NOTICE TO PROCEED**  
**TWO FAILED BIDDINGS**

**Mr. JOSHUA DC. GELLE**  
 Technical Support Engineer  
**JABTRONICS SOLUTIONS (JSI), INC.**  
 Unit MS 405 Corinthian Executive Regency  
 Ortigas Ave., Ortigas Center  
 Pasig City

Dear Mr. Gelle,

Notice is hereby given to **JABTRONICS SOLUTIONS (JSI), INC.** that work/delivery may proceed for the following procurement details:

	Contract Name	: <b>Supply and Delivery of One (1) Lot Spectrum Analyzer</b>
	Purchase Request No.	: <b>GAA-24-04-19020</b>
	Purchase / Work Order No.	: <b>24-09-207</b>
	Total Contract Price	: <b>Php 3,050,000.00</b>
(inclusive of taxes, import duties and all other charges or fees)	Total Contract Price in Words	: <b>Three Million Fifty Thousand Pesos</b>

Upon signing receipt of this Notice, you are responsible for performing the services under the terms and conditions of the Agreement/Purchase Order/Work Order and in accordance with the schedule of requirements/delivery schedule.

You are also hereby required to file a Warranty Security for a minimum period of three (3) months, in the case of Expendable Supplies, or a minimum period of one (1) year, in the case of Non-Expendable Supplies, after acceptance by the Procuring Entity of the delivered supplies. It shall be either retention money in an amount equivalent to at least five percent (5%) of every progress payment, or a special bank guarantee equivalent to at least five percent (5%) of the total contract price. The said amounts shall only be released after the lapse of the warranty period or, in the case of Expendable Supplies, after consumption thereof: Provided, however, That the supplies delivered are free from patent and latent defects and all the conditions imposed under the contract have been fully met.

Note that failure to comply with the above requirements and failure to perform the services under the terms and conditions of the Agreement/Purchase Order/Work Order may constitute grounds for its forfeiture.

Please acknowledge receipt and acceptance of this Notice by signing in the space provided below. There are two (2) copies of this document; you may keep one copy and return the other to the Bids and Awards Committee (BAC) Secretariat of the Advanced Science and Technology Institute. Should you have any questions or clarifications, you may reach us at bac-sec@asti.dost.gov.ph.

Respectfully,

  
**FRANZ A. DE LEON, Ph.D.** Digitally signed by Franz A. De Leon  
 DN: cn=Franz A. De Leon, o=ASTI, ou=ASTI, email=franz@asti.dost.gov.ph  
 Director

<b>DATE OF ISSUANCE:</b>	<b>RECEIVED BY:</b>	<b>WARRANTY SECURITY</b>
<u>SEP 20 2024</u>	_____	Type of Warranty Security: _____
	Signature over Printed Name	Amount of Warranty Security: <u>Php</u> _____
	_____	O.R. No.: _____
	Date and Time	