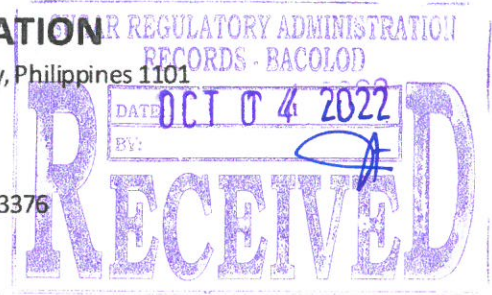




Republic of the Philippines  
Department of Agriculture

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**SUPPLEMENTAL/BID BULLETIN NO. 1**

**Supply and Delivery of One (1) unit Fourier Transform Infrared with Attenuated Total Reflectance (FTIR with ATR) 2022-SIDA-07**

With reference to the Bidding Documents for the Supply and Delivery of One (1) unit Fourier Transform Infrared with Attenuated Total Reflectance (FTIR with ATR), posted at the PhilGEPS and SRA websites, this Supplemental/Bid Bulletin is being issued to clarify, amend, modify some items in the provisions of the Bidding Documents in response to the recommendations raised by prospective bidders, as follows:

Section VII. Technical Specifications			
A.12	Inclusive of table and construction of cubicle with dehumidifier specific for the need of the equipment	A.12	Inclusive of table and construction of cubicle with dehumidifier specific for the need of the equipment <b>(optional)</b>
A.19	Bidders are required to put tabs in all documents to be submitted with the same number as indicated in the Checklist of Technical and Financial Document, in order to facilitate efficiency in evaluating all the documents.	A.19	Bidders are required to put tabs <b>with proper labeling</b> in all documents to be submitted with the same number as indicated in the Checklist of Technical and Financial Document, in order to facilitate efficiency in evaluating all the documents.
Section VIII. Checklist of Technical and Financial Documents			
	<i>Financial Documents</i> (g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC); or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.		<i>Financial Documents</i> (g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC); or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation. <b>As basis for the computation of the NFCC, the latest Audited Financial Statements (AFS) submitted to the BIR shall be attached.</b>

**CLARIFICATIONS ON PROSPECTIVE BIDDER'S QUERIES/RECOMMENDATIONS**

BIDDER	SRA Specification	Recommendation	Reply
ITS Science (Phils.) Inc.	A.4 Wavenumber accuracy: $\leq 0.05\text{cm}^{-1}$	A.4 - To add Wavelength accuracy to the technical specifications and range it between 0.1 $\text{cm}^{-1}$ to 20 $\text{cm}^{-1}$ . - "Our brochure indicates Wavelength Accuracy only and not the wave number. If you are going to convert Wavenumber accuracy to Wavelength accuracy the formula is: $\text{Wavelength accuracy} = 1 / \text{Wavenumber accuracy}$ " - Converting the Wavenumber	<b>Denied.</b> "I am grateful for the efforts of the ITS to participate in the bidding of our requested equipment. We however choose to stick to our specifications stated in our Purchase Request



System ISO 9001:2015  
www.tuv.com  
ID 919508567



	accuracy of $\leq 0.05\text{cm}^{-1}$ to Wavelength accuracy will become $\leq 20\text{cm}^{-1}$ based on the given formula. - "Our system can provide Wavelength accuracy of $0.1\text{ cm}^{-1}$ at $3000\text{ cm}^{-1}$ which is way beyond better than the current specification. The end-user mentioned that he has plans of future research so I believe it will be flexible if the equipment has better spectral accuracy. Kindly see attached brochures as supporting documents."	Moreover, we do prefer the measurement unit in wavenumber than the wavelength."
A.5 Wavenumber reproducibility: Better than or equal to $\pm 0.01\text{cm}^{-1}$	A.5 - "Our system can provide better precision of Better than $0.01\text{ cm}^{-1}$ at $3000\text{ cm}^{-1}$ ."	
A.6 Equipment software support: Necessary software for the equipment and analysis of the result and library upgrades	A.6 - "Is it possible to be specific on the software and the saved libraries? Our system can provide this for free: Spectral Libraries Included in the System: Fluka Chemicals Library ATR of Polymer Library Coblenz Chemicals Library Lubes Library I & II Iowa Library Drugs Library Forensic Crime Library CT Police Library Explosive Library Fibers FBI Library (including Textile) Fibers General Library I & II (including Textile) Polymer Additives General Chemicals Library Adhesive Library I & II Solvent Library Stone Library EPA Environmental Library ATR Of Commonly used Plastic."	
A.7 Sample interface: Dial type liquid sample interface (pathlength of 30 to $250\ \mu\text{m}$ ), Diamond ATR, Diffuse Reflectance, Transmission, 5 Bounce ZnSe ATR, 10 Degree SRA, 45 Degree SRA	A.7 - "Is it possible to counter this specification because our system can provide Zero alignment and zero set-up - once locked into the System. See complete specifications below of our Single Reflection Diamond UATR Accessory: The universal ATR is an excellent general accessory for the analysis of solids and liquids. The UATR produces high quality spectra through the use of a pressure arm allowing good contact of the sample with the diamond crystal. The pressure arm force indicator ensures first-class sample-to-sample and operator-to-operator reproducibility. Features of the UATR include: • Automatic recognition - as soon as the accessory is placed in the sample compartment the Universal ATR module is recognized along with its unique number, and system suitability checks can be carried out. • Zero alignment, zero set-up - once locked into the Spectrum Two, the	

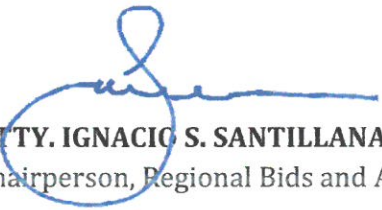
		<p>system is ready to be used without any alignment necessary.</p> <ul style="list-style-type: none"> <li>• <i>Integrated - the plug-in module design means the accessory becomes an integral part of the instrument once installed.</i></li> <li>• <i>Pressure arm with pressure sensor supplied as standard. Live spectral preview mode and force readout in Spectrum ensures good contact before scanning Includes UATR polystyrene reference."</i></li> </ul>	
	A.8 Spectral range: 300-7000 cm-1	<p>A.8 - Request to range this to 300-8,300 cm-1.</p> <p>- "Our system can extend the range up to 8,300 cm-1 which is better than the current because it will be useful for future research."</p>	
	A.9 Spectral resolution: $\leq 2$ cm-1	<p>- Request to change it to <math>\leq 1</math> cm-1.</p> <p>- "Our system can provide 0.5 cm-1 resolution and if you are targeting better results and accuracy, it is recommended that spectral resolution should be less than 1 cm-1."</p>	
		<p>- Additional Requirement:  <i>"Is it possible if you can add to the technical specifications that the machine is capable for Atmospheric Vapor Compensation? This features an advanced digital filtering algorithm designed to subtract CO2 and H2O absorptions automatically in real time. Climate change is real so why not get a machine that can eliminate CO2 for better experiment?"</i></p>	
<b>Chemisphere Lab Sciences</b>	A.1 ATR Accessory: Diamond ATR with clamp and sample holder for different samples such as liquid and powder	A.1 Suitable Accessory for Desired Sample Matrix and switchable (Optional)	<b>Denied.</b>
	A.2 Enclosure: Sealed and desiccated	A.2 Suitable Accessory for Desired Sample Matrix and switchable (Optional)	
	A.8 Spectral range: 300-7000 cm-1	A.8 Suitable Accessory for Desired Sample Matrix and switchable (Optional)	
	A.12 Inclusive of table and construction of cubicle with dehumidifier specific for the need of the equipment	A.12 Inclusive of table and construction of cubicle with dehumidifier specific for the need of the equipment. (Optional)	<b>Granted.</b> <i>"We can make it optional only if the equipment can withstand tremors and vibrations from environment and external source. Also, we need valid proof that it is indeed vibration and</i>

			<i>tremor resistant/proof."</i>
	A.13 With extra consumable parts	A.13 With Extra Consumable Parts (If Applicable)	<b>Denied.</b>

The Supplemental/Bid Bulletin No. 1 shall form part of the Bidding Documents. Any provisions in the Bidding Documents inconsistent herewith is hereby amended, modified and superseded accordingly.

For the guidance and information of all concerned.

Issued this 4<sup>th</sup> day of October 2022.

  
**ATTY. IGNACIO S. SANTILLANA**  
 Chairperson, Regional Bids and Awards Committee