


INVITATION TO BID - Addendum 02		BID DUE DATE AND TIME
BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL & MECHANICAL COLLEGE		12/12/2024 11:00 AM CT
SOLICITATION RFQ-0000002397 SUPPLIER # SUPPLIER NAME AND ADDRESS <div data-bbox="175 394 789 604" style="border: 1px solid black; height: 100px; width: 100%;"></div>	RETURN BID TO <div data-bbox="873 363 1344 426" style="font-size: 24pt; text-align: center;">lsubids@lsu.edu</div> Buyer Amy Hill Bourgeois Buyer Phone Buyer Email ahill5@lsu.edu Issue Date 11/20/2024	
TITLE: Three Channel Segmented Flow Auto-Analyzer		
<p>Addendum 02: Notice is given to all parties that this solicitation is amended by the University as stated herein. This Addendum is hereby made an official part of this solicitation. See attached revised specifications.</p>		
<p style="text-align: center;">To Be Completed By Supplier</p> <ol style="list-style-type: none"> _____ "No Bid" (sign and return this page only). _____ My Company does not wish to receive future solicitations for this spend category. Specify your Delivery: To be made within _____ days after receipt of order. If applicable, Supplier's Addendum Acknowledgement/Response: As an authorized agent/signatory of the supplier, I/we acknowledge receipt of this Addendum, and _____ submit no alterations/clarifications to our original bid. _____ submit superseding revisions/clarifications to our original bid as written herein or attached hereto. <p style="text-align: center;">General Instructions to Suppliers</p> <ol style="list-style-type: none"> Sealed bids for furnishing the items and/or services specified are hereby solicited, and will be received by LSU Procurement at the "Return Bid To" address stated above, until the specified due date and time. Read the entire solicitation, including all terms, conditions and specifications. All bid information and prices must be typed or written in ink. Any corrections, erasures or other forms of alteration to unit price are to be initialed by the supplier. Bid prices are to be quoted FOB LSU/Destination and inclusive of any and all applicable shipping and handling charges unless otherwise specified in the solicitation. Any invoiced delivery charges not quoted and itemized on the LSU purchase order are subject to rejection and non-payment. Payment is to be made within 30 days after receipt of properly executed invoice, or delivery and acceptance, whichever is later. By signing this solicitation, the supplier certifies compliance with all general instructions to suppliers, terms, conditions and specifications; and further certifies that this bid is made without collusion or fraud. 		
SUPPLIER NAME	MAILING ADDRESS	
AUTHORIZED SIGNATURE	CITY, STATE ZIP	
PRINTED NAME	PHONE #	
TITLE	FAX #	
E-MAIL	FEDERAL TAX ID #	

Specifications for Three Channel Segmented Flow Auto-Analyzer

Purpose/Scope of Purchase: LSU Wetland Biogeochemistry Analytical Services located in the College of the Coast and Environment (WBAS) requires a three-channel segmented flow auto-analyzer for the purpose of determining nutrient concentrations in low level seawater samples. **These specifications are NOT for discrete and continuous flow analyzers.**

Must include the following specifications:

1. 3- Channel segmented flow auto-analyzer for use in nutrient analysis of low level Nitrate, Ammonia, and phosphate in freshwater, seawater and porewaters.
2. Chemistry methods for determining nitrate, phosphate, and ammonia in low level seawater.
3. Random Access Sampler with a minimum of 180 sample positions.
4. Computer with Windows 11 software, flat panel monitor and a laser printer.
5. Single chemistry module fitting all 3 channels (for space limitations).
6. Three separate chemistry manifolds for analyzing low level nutrients in seawater.
7. One LED wavelength detector per channel.
8. Single channel high resolution digital colorimeters per channel.
9. Computer controlled temperature of chemistry manifolds and peristaltic pumps.
10. Ammonia Chemistry in water and seawater by gas diffusion method.
11. Must provide at least three (3) days of on-site training and installation.
12. User manual for hardware and software with a backup copy of the software.

The listed chemistries must meet the specifications:

1. Ammonia in surface water and low-level seawater with gas diffusion chemistry.
 - a. Minimum detection limit of 0.60 ug/L as N.
 - b. Heated Bath to 37 C.
 - c. LED light source at 660 nm.
 - d. 6" dialyzer with gas membrane.
2. Nitrate and nitrite in water and seawater
 - a. Minimum detection limit of 0.010 umol/L NO₂+NO₃-N.
 - b. Heated bath to 37 C.
 - c. LED light source.
 - d. Chemistry methods for multiple ranges of NO₂-NO₃ concentrations.
 - e. Cadmium column for Cd reduction method.
3. Phosphate in water and seawater
 - a. Minimum detections limit 0.007 umol/l PO₄-P.
 - b. Heated bath to 37 C.
 - c. LED light source at 880 nm.
 - d. Chemistry methods for multiple Phosphate ranges.

Reporting Limits for the Three Methods:

1. Reporting Limit or PQL (Reporting Limit or PQL of the) of the Ammonia by Gas Diffusion.
 - Ammonia by gas diffusion, RL= 0.5 umol NH₄ as nitrogen.
2. Reporting Limit or PQL of the Nitrate and nitrite.
 - Nitrate + Nitrite RL = 0.214 umol as nitrogen.
3. Reporting Limit or PQL of the Orthophosphate.
 - Phosphate, RL = 0.180 umol as phosphorus.

Delivery Requirements:

INSIDE DELIVERY/GROUND LEVEL: Supplier (and/or its contracted freight carrier) is responsible for delivering, offloading, and setting shipping containers inside the department's specified ground level receiving area. All associated costs shall be borne by the supplier. The University is responsible for further delivery and product distribution beyond this point.

Warranty Requirements:

Must provide at least a 12-month warranty covering parts and labor starting after completion of installation and training.