IFB # 23-078
"Furnish and Install Autotitrator Instrument and Accessories"

MORIN BUILDING
8570 EXECUTIVE PARK AVENUE
FAIRFAX, VIRGINIA 22116-0815

November 14, 2023

To: All Prospective Offerors

Issued by Laurie A. Hankins, Procurement Specialist II, CPPB

Subject: Addendum #2, IFB #23-078
"Furnish and Install Autotitrator Instrument and Accessories"

The purpose of this addendum is to answer questions submitted by the specified deadline. **The bid submission deadline has not changed.** Bidders are reminded they are responsible for ensuring timely delivery of their bid submissions regardless of the current circumstances.

I. General

1. Bids will be opened and read immediately following the submission deadline via Microsoft Teams. Anyone wishing to participate in the bid opening may do so through the link below. Viewers are advised they may need to download the Microsoft Teams app to their device.

Microsoft Teams meeting
Join on your computer, mobile app or room device

Click here to join the meeting

Meeting ID: 227 463 142 844

Passcode: SnaYkL

Download Teams | Join on the web

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+1 571-348-5786,,449604662#

Phone Conference ID: 449 604 662#

II. Questions and Answers

1. Q. "Must the Autotitrator have the capability to analyze ALL parameters (pH, conductivity, alkalinity, total hardness and calcium hardness) from a single sample cup, still in accordance with the requirements of Standard Methods for each parameter? Must the Autotitrator have the capability to complete 2 different titrations in parallel (simultaneously) including all necessary sample preparation tasks? For

example, alkalinity in one analysis vessel and Calcium hardness in the second analysis vessel, at the same time."

A. With the exception of Conductivity (no reagents), multiple parameters cannot be analyzed in one sample cup due to the reagents added for titration. Alkalinity, conductivity, and total hardness all require 100mL of sample. Calcium hardness requires 50mL sample and is typically auto-diluted with the addition of 50mL reagent grade water to achieve proper probe coverage. While this is not a requirement of the specification, if the instrument is capable that is fine.

2. Q. "1. Please provide further explanation about what "sample standard calibration" means."
   2. Regarding "fully automate addition of any titrants, buffers and other reagents needed", does this mean that pumps for automatic addition of pH buffers 1, 4, 7 and 10 plus conductivity standard (s) are to be included, therefore, a minimum of 5x additional pumps for this purpose. Also does this mean pumps for automatic spike addition for alkalinity and hardness titrations, thus 2x additional pumps?"
   A. Sample in the "sample standard calibration" is a typo and not meant to be there; please disregard. pH buffers and calibration/QC standards will be measured and placed on the autosampler like samples, so no pumps needed. Titrants and reagents as specified in the specifications will need to be added using pumps/burettes. There are no spikes for these methods.

3. Q. "Regarding "sensing whether a beaker is in place in each specified location", is it acceptable to detect the absence or presence of sample in each position instead of the beaker? This is the same result, and better, since if there is no sample there still may be a beaker there, plus if no beaker is there, then sensing no sample results in the same detection as no beaker. With this unique capability of sensing no sample, but a beaker may still be in place, which can happen, this means the analysis would still be skipped versus proceeding with."
   A. Yes.

4. Q. "Is a 25mL burette size acceptable instead of 20mL, considering the stepper motor resolution is 100,000 steps, therefore, less than 1uL can be injected during a titration especially around the endpoint (s)?"
   A. If the resolution is fine enough to not overshoot titration end points, a slightly larger burette would be fine.
5. Q. "For the autosampler unit- Would you prefer having all the titration & measurement capabilities on one titration tower (ie all probes, tubes, etc on the same titration stand that holds these) or having two separate towers to separate measurement stations (such as alkalinity/pH/cond and hardness testing on two different stands)
   A. Either option would be fine provided the autosampler has the minimum number of sample positions specified in section 3.1j of the IFB.

NO OTHER QUESTIONS WERE RECEIVED BY THE DEADLINE

III. Acknowledgement

Acknowledge your receipt of, and compliance with, this Addendum by either signing the attached acknowledgement, or referencing its receipt and your compliance, in your bid.

IFB #23-078

""Furnish and Install Autotitrator Instrument and Accessories"

ACKNOWLEDGEMENT OF RECEIPT OF ADDENDUM # 2

I certify that the information contained in the proposal submitted on behalf of the below named firm incorporates any and all changes to the original specification. I further certify by my signature below, that I am fully authorized to acknowledge receipt of the above addendum and also bind the below named firm to the terms, conditions and specifications of the RFP and any changes thereto made by this addendum.

ACKNOWLEDGED BY:

FOR: _____ _____

Company Name Date

_____

Signature of Authorized Agent

_____ _____

Printed/typed name Title