CITY OF Grand Junction COLORADO

Purchasing Division

ADDENDUM NO. 1

DATE: **March 20, 2023**
FROM: **City of Grand Junction Purchasing Division**
TO: **All Offerors**
RE: **Inductively Coupled Plasma Mass Spectrometer (ICP-MS) IFB-5209-23-KH**

Offerors responding to the above referenced solicitation are hereby instructed that the requirements have been clarified, modified, superseded and supplemented as to this date as hereinafter described.

Please make note of the following clarifications:

Section 4 Specification/Compliance Form

1. **Q:** There is no duration specified in item 5. The competitive nature of the bid process may lead bidders to reply with their least expensive and shortest duration training option which is likely to be less than optimal for the end users in the lab.

   Perhaps a specification of minimum of 3 days of on-site training would ensure that sufficient training would be provided for the end users to become more expert with their new ICP-MS. On-site training also ensures that any customization of the analysis method requested by your trainees as they learn about their options will be performed on their new instrument at the Grand Junction laboratory, and not left on a classroom instrument at the manufacturer's training facility.
   A: Amending item 5: Must include installation, set up of instrument, and a minimum of three (3) days hands on training provided on-site.

2. **Q:** (Item 8) Why would an ICP-MS operator want to inject a 1000ppm Na standard into the super sensitive Mass Spec Detector without having electronic mass attenuation…which only the PerkinElmer NexION ICP-MS offers. By doing so, you severely lessen the life expectancy of the ICP-MS detector. Note: All Mass Spec detectors are expensive/destructive consumables.
   A: Amending item 8. Instrument shall be able to analyze high concentration elements and low concentration elements without multiple dilutions or the need to reconfigure the instrument. This requirement should reflect in the ability of the instrument to analyze industrial pretreatment, wastewater, water, and reagent water samples.

3. **Q:** (Item 9) Define "additional" cell gas? Is Helium the resident gas? Is Hydrogen defined as the "additional gas"? Is this specification for an ultrapure reference standard or chlorinated surface/drinking water "dirty" sample?

A: Amending item 9. Instrument shall detect low concentrations of Selenium in helium gas mode without the need of hydrogen.

4. **Q:** (Item 10) This is clearly an Agilent sole-source specification and does not define the various types of interference removal capabilities found in other vendors ICP-MS designs. Why use ½ Mass when the PerkinElmer resolution is superior to the Agilent product and better than 1AMU???
   A: Amending item 10: Instrument shall be capable of removing doubly charged interferences on Arsenic and Selenium.

5. **Q:** (Item 11) What is the minimum time specification?
   A: Instrument shall be automated, under 10 seconds, to switch gasses and clear the chamber.

6. **Q:** (Item 17) All data generated in comma delimited (Excel Compatible) Format.
   A: Amending item 17: Capable of EPA report formatting, CSV excel file report formatting.

7. **Q:** (Item 19) This is a sole-source specification. *PerkinElmer does a full quantitative scan instead of a semi-quant routine*?
   A: Amending item 19: Instrument shall have the capability for quick scan of entire mass spectrum including analysis for uncalibrated elements, displayed in a user-friendly format for review. Especially important for quickly determining elements in industrial pretreatment samples.

8. **Q:** (Item 22) All data generated in comma delimited (Excel Compatible) Format which is accepted by all LIMS systems.
   A: Yes, according to ATL xls files are most used but csv formatting will also work.

9. It is most definitely the City's goal to obtain the best performing ICP-MS product available. We looked through documentation of several vendors to decide the specifications we felt we needed for this instrument. The City did not intend on being specific to any one vendor but may have included specification applicable to only one vendor due to our lack of understanding some of the nomenclature of the methods available.

10. Firm shall utilize the addendum 1 version of the specification/compliance form attach for their bid.

The original solicitation for the project noted above is amended as noted.

All other conditions of subject remain the same.

Respectfully,

Kassy Hackett, Buyer
City of Grand Junction, Colorado

4. Specification/Compliance Form
(Addendum 1)

MINIMUM SPECIFICATION FOR: Inductively Coupled Plasma Mass Spectrometer (ICP-MS). All specifications must be met or exceeded or may be considered non-responsive. Incomplete responses will not be considered.

Bidder shall provide material specification sheets and other forms of documentation also.

Bidder shall note any exceptions to the bid on the Comment section. Bidder shall list in a separate attachment detail concerning the exception. This sheet shall be labeled "Exception(s) to Bid Conditions and Specifications".

All equipment furnished under this contract shall be new, unused, and the latest model offered by the manufacturer's current production (unless otherwise stated).

	Description	Meets	Does Not Meet	Comments
1	Must be able to perform analysis using EPA approved methods 200.8 and 6020B.			
2	Must demonstrate the ability to meet method reporting limit and MDL's for required methods EPA 200.8 and EPA 6020B.			
3	Must be a new instrument with all components required for operation and shall be the latest and most current model.			
4	Must come with autosampler capable of holding multiple samples (minimum 50).			
5	Must include installation, set up of instrument, and a minimum of three (3) days hands on training provided on-site.			
6	Instrument operation, maintenance and clean up should not be extremely labor intensive.			
7	Must be able to run ultra-high matrix interference capable of running samples with up to 25% TDS without need for dilution.			
8	Instrument shall be able to analyze high concentration elements and low concentration elements without multiple dilutions or the need to reconfigure the instrument. This requirement should reflect in the ability of the instrument to analyze industrial pretreatment, wastewater, water, and reagent water samples.			
9	Instrument shall detect low concentrations of Selenium in helium gas mode without the need of hydrogen.			
10	Instrument shall be capable of removing doubly charged interferences on Arsenic and Selenium.			

	Description	Meets	Does Not Meet	Comments
11	Instrument shall be automated, under 10 seconds, to switch gasses and clear the chamber.			
12	Must be able to reduce oxide interferences with approximately 0.25% cerium oxide ratio.			
13	Must be able to produce low cerium oxide ratio.			
14	Must be energy efficient.			
15	Must come with reliable, user friendly, intuitive software.			
16	Must have editable preset methods.			
17	Capable of EPA report formatting, CSV excel file report formatting.			
18	Must be capable of autocalibration, fully automated tuning and run pulse to analog calibration automatically without the need for additional calibration solutions.			
19	Instrument shall have the capability for quick scan of entire mass spectrum including analysis for uncalibrated elements, displayed in a user-friendly format for review. Especially important for quickly determining elements in industrial pretreatment samples.			
20	Must have maintenance notifications within software along with interactive troubleshooting.			
21	Software must be compatible to be backed up through organization servers without issue.			
22	Must have compatible interface capability with ATL Sample Master LIMS. CSV formatting will also work.			
23	Must provide quality technical support with on-site assistance.			