

**ADDENDUM 1**  
(Issue date: 2/6/2025)

(please sign and return with the submittal)

**CHANGES**

The City is revising various sections in the Scope of Work, 3.4 Scope of Services Section. Please remove and replace the following sections as follows (**changes are noted in bold text**):

1. The City is revising the Installation Section, paragraph A, and is adding paragraph C (IFB page 13) as follows:
  - A. On-site installation and demonstration of the SEM/EDS shall be conducted by the Contractor within 180 days of contract award, **if required by the manufacturer**. The installation is to include all ancillary equipment which is necessary for complete operation of all components to the specifications of this contract. Installation, at a minimum, shall include uncrating/unpacking of all equipment, rigging, set-up and hook-up of the system, demonstration of all specifications, and removal of trash.
  - B. A site survey of the laboratory facility shall be scheduled as needed by the Contractor in advance of the delivery in order to certify that the laboratory meets minimum specifications for installation of the instrument.
  - C. A virtual site survey is an option pending manufacturer recommendation. This will be a mutual agreement between the City and Contractor based on the manufacturer's recommendation.**
2. The City is revising the Preventative Maintenance, Repairs and Technical Support section, subsection Repair Services, paragraph D, and adds the last sentence as follows:

Repair Services

- D. Contractor shall be on-site to provide repairs within forty-eight (48) hours and next business day for delivery of spare parts. **If the repairs cannot be provided within this timeframe, other arrangements can be accepted with City or designee, with advance notice. The priority is to ensure minimal downtime of the system.**

**QUESTIONS AND ANSWERS:**

Note: Spelling, grammar, and punctuation of the questions are shown exactly as submitted by the potential respondents.

No.	Question	Answer
1.	<p><b>IFB Section 3.3.A. (Pg. 12)</b></p> <p>(a) Do you require a GSR solution that follows ASTM E1488-20?</p> <p>(b) Do you require a GSR sample holder with minimum capacity?</p> <p>(c) Do you require a certain size silicon drift detector chip in the EDS system (e.g. 65mm<sup>2</sup>)? Please specify a minimum.</p> <p>(d) Do you require a dedicated secondary electron detector for low vacuum mode, which would provide surface sensitive SE signal?</p> <p>(e) Do you require an oil-free scroll pump?</p> <p>(f) Do you require a control panel / knobset?</p> <p>(g) Do you require image montaging software?</p>	<p>(a) The reference cited of E1488-20 appears to be incorrect, E1488-20 has a different standard. <b>The correct reference is “E1588-20”.</b> Yes, the EDS needs to meet this requirement for GSR analysis.</p> <p>(b) A specimen holder that can hold at least 7-10 GSR stubs is acceptable, but a 20 stub holder is preferred.</p> <p>(c) Minimum silicone drift detector requested is 65mm<sup>2</sup>.</p> <p>(d) This is not a requirement for the base SEM but is a preferred option.</p> <p>(e) An oil-free scroll pump is preferred. If provided, please include service for the scroll pump in the service agreement (tip seal replacement).</p> <p>(f) A control panel/knob set is not required for the base SEM but is a preferred option.</p> <p>(g) Image montaging software is not required.</p>
2.	<p><b>IFB Section 3.3.N. (Pg. 13)</b></p> <p>Will you accept a variable pressure range up to 500 Pa in lieu of 650 Pa noted?</p>	<p>Yes. 3.3.N states “up to 650Pa”.</p> <p>500Pa in LV mode is acceptable, but up to 650Pa is preferred.</p>
3.	<p><b>IFB Section 3.4.B. Installation (Pg. 13)</b></p> <p>(a) Is a site survey required by the customer or only if recommended by the manufacturer?</p> <p>(b) Would optioning a site survey with purchase contingent on further discussion of your site, be sufficient for now?</p>	<p>See response to Question #1.</p>
4.	<p>Clarify if the preventative maintenance services only include services.</p>	<p>Yes.</p>
5.	<p>Is the preventative maintenance services supposed to cover the full system SEM/EDS?</p>	<p>Yes. A full-service plan is required for both SEM and EDS systems.</p>

6.	<p><b>IFB Section 3.4. Scope of Services (Pgs. 15-16)</b>  <u>Maintenance Services &amp; Repair Services</u>          (a) Do you require a full-service contract (i.e. includes all costs to repair or replace covered parts, as well as a preventive maintenance (PM) visit)?          (b) Alternatively, we have PM-only service contracts that include only costs necessary to conduct the PM – parts and labor for repairs would be billable in this case.</p>	<p>(a) Yes.          (b) A PM-only service is not acceptable. Attachment A – Fee Schedule (Pg.45)          i. B1. Annual Preventative Maintenance/ Technical Support: Annual cost for all of the PM services provided (includes Tech labor).          ii. B2. Provide a detailed description of all services included in B1.          (c) Costs for Repair Services are billed separate and should be included in Paragraph C, Page 46.          (d) The cost of parts will be reimbursed at the rates identified in Published Catalogs / Price Lists - Paragraph D, Page 46.</p>
7.	<p>Submittals, section 8.1          Notes a validity period of 240 calendar days, but section 2.1 notes an expected award on or about April 1, 2025. Is validity through the end of April acceptable?</p>	<p>No. The City anticipates the award to be in April 2025.           The requirement in 8.1 (Pg 42) requires a period of 240 calendar days from the opening date. The extended time frame covers unanticipated delays, delays in the evaluation process, City process delays, protests etc.</p>
8.	<p>How will parts be reimbursed, if we do not have a published price list?</p>	<p>The City requires a price list at the time of bid submittal, as this will be the fixed pricing.           Changes to this requirement should be submitted as an exception for the City’s consideration in accordance to solicitation paragraph 2.6. Exceptions.</p>
9.	<p>Will the City consider changing to 208 or 220 volts? The current requirement is 120 volts. The supply side w/need to change.</p>	<p>120 volts is preferred and accommodates the City’s existing electrical infrastructure. However, 208 (but not 220) can be accommodated pending amperage needed. This is not preferred.</p>

10.	<p>Would you please let us know the expectation for the 10 year contract?                  Will the City pay for the services upfront?</p>	<p><b>5. Special Terms and Conditions, paragraph 5.1 Term of Contract, Pg. 31</b>                  The initial term of the contract is for six years, with one (1) four-year option to extend the term for an aggregate of ten (10) years. Preventative maintenance services will be paid at the beginning of each year.                  (a) Initial term: Will cover the purchase of the equipment with the one-year warranty.                  (b) Initial Term: Includes preventative maintenance for 5 years.                  (c) Optional Extension: Includes four years of preventative maintenance.                  Note: 5.3. Price, states that prices will be fixed for the initial six (6) years, and the remaining four (4) year extension has the option for price increases.</p>
11.	<p>Scope of Work, Repair Services, Repair procedures, Pg. 16, can you confirm that all parts and labor to repair SEM/EDS require pre-approval from PPD?</p>	<p>Maintenance not covered in the Preventative Maintenance as outlined by the Offeror, will be considered a repair and must be approved by PPD staff prior to work being performed.</p>
12.	<p>On page 12, line D states, <b>“The system must also include a heavy-duty stage that is automated in all five axes of movement (X, Y, Z, Tilt, and Rotation) with reproducible stage relocation and the ability to provide flexible, versatile manipulation of large and heavy samples”</b>. What is the purpose of needing five axes of movement? I know most GSR applications have the stage at a fix height to keep their analysis consistent. Is this something needed at the point of purchase, or could it be added on later? Would it be possible to put the on the bid that it’s either on the system or could be added as an option?</p>	<p>This system needs to be able to analyze a wide range of evidence, GSR is only one. Per the SOW section 3.1:                  “wide variety of physical evidence including gunshot residue, fibers, paints, explosives, tapes, and miscellaneous trace evidence (plastics, powders, etc.) related to various types of criminal investigations.”</p>
13.	<p>On page 12, line G states, <b>“Electron beam landing energy range: 300 V to 30 kV”</b>. A 30kV electron beam will have a surface interaction volume larger than most airborne GSR particles. The Phenom Particle X GSR was designed for optimal detection and analysis of real world sized GSR particles. Therefore, the Phenom Particle X GSR has a maximum setting of 20kV accelerating voltage. Is this acceptable?</p>	<p>No. System requirement to 30kV is requested.</p>

14.	On page 12, line J states, " <b>Magnification: 5X to 300,000X (print) and 14X to 840,000X (display)</b> ". Is the display or print magnification necessary if you stated in Line A that you only need an SEM for low magnification (less than 20,000x) imaging? The Phenom Particle X GSR has a maximum magnification of 210,000x would this be sufficient?	No. Requirements are for other trace related evidence.
15.	On page 12, line K states, " <b>HV mode: 3nm at 30kV; 8nm at 3kV, and 15nm at 1kV</b> ". Once again, if you only use the SEM to image/analyze samples at 20,000x do you need a resolution of 3nm. The Phenom Particle X has a resolution of 10nm at 20kV and 14nm at 5kV, would this be sufficient?	No. Requirements are for other trace related evidence.
16.	On page 12, line M states, " <b>12 ports and chamber view capabilities</b> ". What would be the purpose of 12 ports? Are you planning to add more than one EDS detector or an additional detector?	Additional ports may be needed for future analytical considerations.
17.	On page 13, line N states, " <b>Operating pressure 10(-4) Pa order up to 650Pa in LV mode</b> ". GSR analysis is usually ran in high vacuum (0.1Pa), is it necessary to have a need for a low vacuum of 650Pa? The Phenom Particle X SEM goes to 60Pa, would this be sufficient?	No. Requirements are for other trace related evidence.
18.	On page 13, line P states, " <b>Dell Optiplex 5090 tower or equivalent with Intel Core i5-10500 processor, 16GB RAM, 2TB Hard Drive, Windows 10 OS, Ethernet x2</b> ". The Phenom Particle X GSR comes with a computer that only has 512 GBs. A hard drive can easily be attached to the computer. Is it necessary to have a spec of 2TB if a user can just add an external hard drive?	An external hard drive is not acceptable for the base SEM.
19.	On page 15, Maintenance Services, line C states, " <b>The Contractor shall perform a complete inspection and provide a written inspection report to PPD following the visit, but not to exceed more than ten (10) calendar days</b> ". What is required in your inspection report? At Nanoscience Instruments, after a maintenance service we provide the customer with the following items below. Would this be sufficient?	Yes, this is sufficient. Inspection reports are different for each manufacturer and is dependent on system and services provided.

	<ul style="list-style-type: none"> <li>• Customer name and SEM information</li> <li>• Service engineer information and date of inspection</li> <li>• Reason for service and details of reported problems</li> <li>• Service observations</li> <li>• Service rendered</li> <li>• Preventing SEM downtime and costly repairs</li> <li>• Service certification</li> <li>• Service message with pass/fail</li> <li>• Hardware inspection</li> <li>• Service Preventative maintenance checklist</li> </ul>	
20.	<p>On page 15, Repair Services, line D states, <b>“Contractor shall be on-site to provide repairs within forty-eight (48) hours and next business day for delivery of spare parts”</b>. At Nanoscience Instruments, on a best effort bases, we can be onsite within 3-5 business days. We are in Arizona and could be available sooner depending on the travel of the service engineers. Additionally, we do not stock a complete suite of all repair parts, from time to time these parts must be ordered from the European manufacturer. Is this acceptable? If so, can we change the time to 3-5 business days and note that some parts might take longer than 24 hours to receive.</p>	See Response to Question #2 above.

The balance of the specifications and instructions remain the same. Bidder must acknowledge receipt and acceptance of this addendum by signing below and returning the entire addendum with the bid or proposal submittal.

Name of Company: \_\_\_\_\_

Address: \_\_\_\_\_

Authorized Signature: \_\_\_\_\_

Print Name and Title: \_\_\_\_\_