

**1. Solicitation Number:** FDA-RFQ-23-117527

**2. Title:** Pyrolyzer furnace system

**3. Posted Date:** May 24, 2023

**4. Response Date:** June 2, 2023; 10:00 a.m. Eastern Time.

**5. Description:** Pyrolyzer furnace system

This is a combined synopsis/solicitation for commercial items prepared in accordance with the format in FAR Subpart 12.6, as supplemented with additional information included in this notice. This announcement constitutes the only solicitation; proposals are being requested and a written solicitation will not be issued

The solicitation document and incorporated provisions and clauses are those in effect through FAR FAC 2022-06 May 26, 2022. For purposes of this acquisition, the associated NAICS code is 334516.

Line Item Structure: The following is a contract line item number(s), quantities, and units of measure, (including option(s), if applicable):

Line Item 0001 – pyrolyzer furnace system  
Line Item 0002- Installation and calibration of pyrolyzer furnace system

Line Item 0003- Test and verification of full equipment functionality

Line Item 0004- Onsite training on basic operations and familiarization of the instrument shall be provided at the time of installation.

## **Background**

Routine analysis of foods for the presence and levels of radionuclides is an important component of FDA's food safety monitoring efforts. The greatest potential for accidental contamination results from nuclear power generation, both domestically and abroad. As part of the Radionuclides in Food Compliance Program, domestic samples are collected in areas near nuclear power plants and import samples are collected from countries most likely to have food products with radionuclide contamination. These monitoring efforts enable FDA to respond to nuclear accidents and to identify sources of radionuclide contamination. The Food and Drug Administration's (FDA) Winchester Engineering and Analytical Center (WEAC) is the only FDA laboratory that performs analysis of tritium and other radionuclides in foods as a part of FDA's food safety surveillance and compliance programs.

## **Purpose**

This document describes WEAC's need for a sample pyrolyzer to monitor the radioactivity associated with tritium so that CFSAN can ensure the safety of fish and seafood captured after exposure to nuclear plant discharge waters.

## **Impact**

- Failure to obtain the sample pyrolyzer will severely impact FDA's ability to monitor the influx of samples expected following the release of contaminated water from Fukushima holding tanks.
- Currently, WEAC can only analyze tritium as part of water molecules. Without the sample pyrolyzer, WEAC will not be able to provide accurate tritium analytical results for those samples that contain organically bound tritium.

## **Objectives**

- To install an analytical furnace system optimized for the quantitative extraction of volatile radionuclides, such as tritium, from solid and liquid samples.

- To institute rapid and reproducible extraction capability for tritium analysis on regulatory samples.
- To implement the detection of both tritiated water and organically bound tritium for regulatory samples.

## **Scope**

The requested pyrolyzer furnace system shall be an off-the-shelf product without the need for additional instrumentation. The installed pyrolyzer furnace system shall include all hardware, accessories, and software to enable the extraction of tritium from food.

## **Requirements**

The contractor shall provide a pyrolyzer furnace system off-the-shelf product without the need for additional instrumentation. The contractor shall install pyrolyzer furnace system to include all hardware, accessories, and software to enable the extraction of tritium from food.

- The contractor shall ensure the following minimum salient specifications for the pyrolyzer furnace system: shall have 3 independent temperature-controlled furnace zones
- Shall have over temperature protection
- Shall be equipped with 6 independent sample work-tubes for a minimum 6 samples/day sample throughput
- Shall accept up to 10g (dry) sample per tube
- Shall have >95% bubbler trapping efficiencies for H<sup>3</sup>
- Shall be equipped with all necessary instrument control, calibration, and application software
- Shall operate with automatic gas switching
- Shall have a total weight less than 130 kg
- Shall have data logging with USB output
- Shall come with necessary accessories
- Shall have an overall space usage less than 330cm (L) X 70cm (W) X 100cm (H)
- Shall include onsite installation service
- Shall include basic training on instrument operation

### **The contractor shall ensure the following:**

1. The components and/or equipment shall be a newly manufactured, not used and refurbished, or previously used for demonstration.
2. The entire system shall be warranted for parts and labor for a minimum of 1 year from date of formal government acceptance. The warranty must include unlimited telephone/e-mail support for questions regarding operation.
3. Offered systems shall be a turn-key solution, i.e. the contractor shall be responsible for providing all hardware, components, and software.
4. The systems shall be delivered with all necessary supplies and accessories required for installation, start-up and tritium extraction.
5. The contractor shall demonstrate upon installation that the system meets or exceeds all performance specifications which have been included in the vendor's response and/or used are evaluation criteria for award. The instrument shall not be accepted until those performance specifications have been met.

6. No subcontractors or other personnel not employed by the offeror shall be utilized for instrument service.
7. Onsite training on basic operations and familiarization of the instrument shall be provided at the time of installation.
  - The contractor shall demonstrate upon installation that the system meets or exceeds all performance specifications which have been included in the vendor’s response and/or used are evaluation criteria for award.
  - The instrument shall not be accepted until those performance specifications have been met.
8. All service costs, i.e., software, labor, and travel, must be included.

**Deliverables**

Deliverable	Description	Quantity	Date Completed
1	Sample pyrolysis system that meets or exceeds minimum technical requirements	1	60 days after contract award
2	Installation and calibration of sample pyrolysis system	1	60 days after contract award
3	Test and verification of full equipment functionality	1	60 days after contract award
4	Onsite training to demonstrate basic operation, sample preparation, and maintenance	1	60 days after contract award

**Security**

Check in with Security at front entrance.

**Delivery Location/ Place of Performance**

Delivery must be coordinated with ORA/WEAC at least 48 hours in advance:

U. S. FDA Winchester Engineering and Analytical Center  
 Attn: POC to be identified at time of award  
 109 Holton Street  
 Winchester, MA 01890

Workplace is not available on the Government Holidays stated below, or as prescribed by an Executive Order (EO) due to inclement weather.

**Government Holidays**

January (New Year’s Day)	September (Labor Day)
January (Martin Luther King Day)	October (Columbus Day)
February (President’s Day)	November (Veterans Day)
May (Memorial Day)	November (Thanksgiving Day)
June (Juneteenth)	December (Christmas Day)
July (Independence Day)	

**Type of Contract:** Firm-Fixed-Price (FFP); The Government anticipates issuing a firm fixed-price purchase order.

**Set Aside:** N/A

**FDA Electronic Invoicing and Payment Requirements - Invoice Processing Platform (IPP) (Jan 2022)**

- (a) All Invoice submissions for goods and or services must be made electronically through the U.S. Department of Treasury's Invoice Processing Platform System (IPP). <http://www.ipp.gov/contractors/index.htm>
- (b) Invoice Submission for Payment means any request for contract financing payment or invoice payment by the Contractor. To constitute a proper invoice, the payment request must comply with the requirements identified in FAR 32.905(b), "Content of Invoices" and the applicable Payment clause included in this contract, or the clause 52.212-4 Contract Terms and Conditions – Commercial Items included in commercial items contracts. The IPP website address is: <https://www.ipp.gov>.
- (c) -----
- (1) The Agency will enroll the Contractors new to IPP. The Contractor must follow the IPP registration email instructions for enrollment to register the Collector Account for submitting invoice requests for payment. The Contractor Government Business Point of Contact (as listed in SAM) will receive Registration email from the Federal Reserve Bank of St. Louis (FRBSTL) within 3 – 5 business days of the contract award for new contracts or date of modification for existing contracts.
- (2) Registration emails are sent via email from [ipp.noreply@mail.ero.c.twai.gov](mailto:ipp.noreply@mail.ero.c.twai.gov). Contractor assistance with enrollment can be obtained by contacting the IPP Production Helpdesk via email to [IPPCustomerSupport@fiscal.treasury.gov](mailto:IPPCustomerSupport@fiscal.treasury.gov) or phone (866) 973-3131.
- (3) The Contractor POC will receive two emails from IPP Customer Support, the first email contains the initial administrative IPP User ID. The second email, sent within 24 hours of receipt of the first email, contains a temporary password. You must log in with the temporary password within 30 days.
- (4) If your company is already registered to use IPP, you will not be required to re-register.
- (5) If the Contractor is unable to comply with the requirement to use IPP for submitting invoices for payment as authorized by HHSAR 332.7002, a written request must be submitted to the Contracting Officer to explain the circumstances that require the authorization of alternate payment procedures.
- (d) Invoices that include time and materials or labor hours Line Items must include supporting documentation to (1) substantiate the number of labor hours invoiced for each labor category, and (2) substantiate material costs incurred (when applicable).
- (e) Invoices that include cost-reimbursement Line Items must be submitted in a format showing expenditures for that month, as well as contract cumulative amounts.
- (1) At a minimum the following cost information shall be included, in addition to supporting documentation to substantiate costs incurred.
- Direct Labor - include all persons, listing the person's name, title, number of hours worked, hourly rate, the total cost per person and a total amount for this category.
  - Indirect Costs (i.e., Fringe Benefits, Overhead, General and Administrative, Other Indirect)- show rate, base and total amount.
  - Consultants (if applicable) - include the name, number of days or hours worked, daily or hourly rate, and a total amount per consultant.
  - Travel - include for each airplane or train trip taken the name of the traveler, date of travel, destination, the transportation costs including ground transportation shown separately and the per diem costs. Other travel costs shall also be listed.
  - Subcontractors (if applicable) - include, for each subcontractor, the same data as required for the prime Contractor.

- Other Direct Costs - include a listing of all other direct charges to the contract, i.e., office supplies, telephone, duplication, postage; and
  - Fee – amount as allowable in accordance with the Schedule and FAR 52.216-8 if applicable.
- (f) Contractor is required to attach an invoice log addendum to each invoice which shall include, at a minimum, the following information for contract administration and reconciliation purposes:
- (1) list of all invoices submitted to date under the subject award, including the following:
- invoice number, amount, & date submitted
  - corresponding payment amount & date received
  - total amount of all payments received to date under the subject contract or order
  - and, for definitized contracts or orders only, total estimated amounts yet to be invoiced for the current, active period of performance.
- (g) Payment of invoices will be made based upon acceptance by the Government of the entire task or the tangible product deliverable(s) invoiced. Payments shall be based on the Government certifying that satisfactory services were provided, and the Contractor has certified that labor charges are accurate.
- (h) If the services are rejected for failure to conform to the technical requirements of the task order, or any other contractually legitimate reason, the Contractor shall not be paid, or shall be paid an amount negotiated by the CO.
- (i) Payment to the Contractor will not be made for temporary work stoppage due to circumstances beyond the control of U.S. Food and Drug Administration such as acts of God, inclement weather, power outages, and results thereof, or temporary closings of facilities at which Contractor personnel are performing. This may, however, be justification for excusable delays.
- (j) The Contractor agrees that the submission of an invoice to the Government for payment is a certification that the services for which the Government is being billed, have been delivered in accordance with the hours shown on the invoices, and the services are of the quality required for timely and successful completion of the effort.
- (k) Questions regarding invoice payments that cannot be resolved by the IPP Helpdesk should be directed to the FDA Employee Resource and Information Center (ERIC) Helpdesk at 301-827-ERIC (3742) or toll-free 866-807-ERIC (3742); or, by email at ERIC@fda.hhs.gov. Refer to the Call-in menu options and follow the phone prompts to dial the option that corresponds to the service that's needed. All ERIC Service Now Tickets will either be responded to or resolved within 48 hours (2 business days) of being received. When emailing, please be sure to include the contract number, invoice number and date of invoice, as well as your name, phone number, and a detailed description of the issue.

(END OF CLAUSE)

## **FAR / HHSAR Clauses:**

I. The provision at 52.212-1, Instructions to Offerors – Commercial DEVIATION 2018-O0018, applies to this acquisition. The following addenda have been attached to this provision:

In addition to the requirements set for the in FAR 52.212-1, all offers responding to this solicitation must provide their business size in relation to the NAICS code contained in this solicitation and shall identify any socioeconomic categories to which they belong.

II. Evaluation Criteria - The specific evaluation criteria to be used are as follows: Lowest price technically

acceptable (LPTA).

III. Offerors shall include a completed copy of the provision at FAR 52.212-3 (with its Alternate I), Offeror Representations with its offer.

IV. The clause at 52.212-4, Contract Terms and Conditions - Commercial Items, applies to this acquisition. The following addenda have been attached to this clause – Not Applicable

V. The clause at 52.212-5, Contract Terms and Conditions Required to Implement Statutes or Executive Orders - Commercial Items applies to this acquisition. The following additional FAR clauses cited in this clause are applicable:

52.204-10, Reporting Executive Compensation and First-Tier Subcontract Awards (Oct 2018)

52.209-6, Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment. (Oct 2015)

52.219-28, Post Award Small Business Program Representation (Nov 2020)

52.222-3, Convict Labor (June 2003)

52.222-19, Child Labor-Cooperation with Authorities and Remedies (Jan 2020)

52.222-21, Prohibition of Segregated Facilities (Apr 2015)

52.222-26, Equal Opportunity (Sept 2016)

52.222-36, Equal Opportunity for Workers with Disabilities (Jun 2020)

52.222-50, Combating Trafficking in Persons (Oct 2020)

52.223-18, Encouraging Contractor Policies to Ban Text Messaging While Driving (Jun 2020)

52.225-1 Buy American-*Supplies* (Oct 2022)

52.225-13, Restrictions on Certain Foreign Purchases (June 2008)

52.232-33, Payment by Electronic Funds Transfer-System for Award Management (Oct 2018)

52.204-7 System for Award Management (Oct 2018)

52.204-13 System for Award Management Maintenance (Oct 2018)

52.204-16 Commercial and Government Entity Code Reporting (Aug 2020)

52.204-18 Commercial and Government Entity Code Maintenance (Aug 2020)

52.204-24 Representations Regarding Certain Telecommunications and Video Surveillance Services or Equipment (Aug 2019)

52.204-25 Prohibition on Contracting for Certain Telecommunications and Video Surveillance Services or Equipment

52.204-26 Covered Telecommunications Equipment or Services-Representation

52.232-40 Providing Accelerated Payments to Small Business Subcontractors (Dec 2013)

352.239-73 Electronic and Information Technology Accessibility Notice (Dec 2015)

352.239-74 Electronic and Information Technology Accessibility (Dec 2015)

352.232-71 Electronic Submission of Payment Requests (FEB 2022)

(a) Definitions. As used in this clause—

Payment request means a bill, voucher, invoice, or request for contract financing payment with associated supporting documentation. The payment request must comply with the requirements identified in FAR 32.905(b), “Content of Invoices” and the applicable Payment clause included in this contract.

(b) Except as provided in paragraph (c) of this clause, the Contractor shall submit payment requests electronically using the Department of Treasury Invoice Processing Platform (IPP) or successor system. Information regarding IPP, including IPP Customer Support contact information, is available at [www.ipp.gov](http://www.ipp.gov) or any successor site.

(c) The Contractor may submit payment requests using other than IPP only when the Contracting Officer authorizes alternate procedures in writing in accordance with HHS procedures.

(d) If alternate payment procedures are authorized, the Contractor shall include a copy of the Contracting Officer's written authorization with each payment request.

(END OF CLAUSE)

VII. This acquisition is rated under the Defense Priorities and Allocations System (DPAS) as N/A

VIII. The following notes apply to this announcement: N/A

## Section 508 Requirements

The following standards are applicable for this requirement:

- Must meet WCAG 2.0 A and AA
- E101.2 Equivalent Facilitation (Appendix A, Application and Scoping Requirements)
- E203 Access to Functionality (Appendix A, Application and Scoping Requirements)
- E204 Functional Performance Criteria (Appendix A, Application and Scoping Requirements)
- E205 Electronic Content (Appendix A, Application and Scoping Requirements)
- E208 Support Documentation and Services (Appendix A, Application and Scoping Requirements)
- Chapter 6 Support Documentation and Services (Appendix C, Functional Performance Criteria and Technical Requirements)
- 302 Functional Performance Criteria (Appendix C, Functional Performance Criteria and Technical Requirements)

Electronic content must be accessible to HHS acceptance criteria. Checklist for various formats are available at <https://www.hhs.gov/web/section-508/accessibility-checklists/index.html>, or from the Section 508 Coordinator listed at <https://www.hhs.gov/web/section-508/additional-resources/section-508-contacts/index.html>. Materials that are final items for delivery should be accompanied by the appropriate checklist, except upon approval of the Contracting Officer or Representative.

## Instructions to Offeror for Proposal Submission

FAR 52.212-1 Instructions to Offerors—Commercial Items (Jun 2020)

PROPOSAL SUBMISSION FORMAT:

\*The solicitation does not commit the Government to pay any cost for the preparation and submission of a quote or proposal. It is also advised that the Contracting Officer (CO) is the only individual who can legally commit and obligate the Government to the expenditure of public funds in connection with the proposed acquisition. \*

**QUOTES DUE:** All quotes are due, electronically via email to [Nina.Montgomery@fda.hhs.gov](mailto:Nina.Montgomery@fda.hhs.gov) for the RFQ no later than June 2, 2023 10:00 a.m. Eastern Time. Late submissions may not be evaluated.

**The subject line shall read: FDA-RFQ-23-117527 Pyrolyzer furnace system**

The offeror or applicant shall submit all electronic documents for Microsoft Office suite products without the use of "macros". When submitting proposals via email, DO NOT include .exe, .mso, or any other executable file types that could potentially trigger email security protections (i.e., email blocks, quarantine). If the offeror or applicant submits documents that contain macros, macro referenced files, and/or executable files, the Government will not be able to view or open such documents and the submission will be considered non-responsive to the solicitation. No additional time will be given to an offeror or applicant to correct the document submission and the Government will not inform the offeror or applicant that their submission is non-responsive prior to award. It is the offeror's or applicant's responsibility to ensure all electronic documents are submitted without the use of macros.

**Basis for Award/Evaluation Criteria**

The Government shall award a firm fixed price contract resulting from this solicitation to the responsible Quoter using the lowest price, technically acceptable (LPTA) evaluation method. The Government intends to evaluate quotes and award an order without discussions. FDA will first evaluate all Offerors' prices, then, evaluate the apparent lowest-priced quote/proposal for technical acceptability. If the lowest-price Offeror was evaluated as unacceptable, FDA would then consider the acceptability of the next lowest-price Offeror, continuing this process as necessary. Quoters' initial quote should contain the Quoters' best terms from a price standpoint. FOR Equivalent requirements that differ from the minimum salient requirements the Quoter shall provide a technical narrative and supporting documentation to demonstrate that their quoted requirements meet the needs of the solicitation. The Government requests the Contractor to provide discounts off their established pricing for each line item. The Government reserves the right to conduct discussions if later determined by the Contracting Officer to be necessary.

The following factors shall be used to evaluate quotes: Lowest price, technically acceptable (LPTA).