

## **Advance Contract Award Notice (ACAN)**

**23-58253**

### **Supply of Nano Particle Analyzer**

1. Advance Contract Award Notice (ACAN)  
An ACAN is a public notice indicating to the supplier community that a department or agency intends to award a contract for goods, services or construction to a pre-identified supplier, thereby allowing other suppliers to signal their interest in bidding, by submitting a statement of capabilities. If no supplier submits a statement of capabilities that meets the requirements set out in the ACAN, on or before the closing date stated in the ACAN, the contracting officer may then proceed with the award to the pre-identified supplier.
2. Definition of the requirement  
The National Research Council of Canada has a requirement for a nano particle analyzer for use in an ongoing collaborative project in accordance with the following. This solicitation includes: one Nanoparticle analyzer system; cartridge starter kit for the system in accordance with the technical requirements; Software and hardware for analysis; Installation as needed; manuals; training; maintenance and support services.
3. Criteria for assessment of the Statement of Capabilities (Minimum Essential Requirements)
  1. The detection must be exclusively based on electrical measurement (resistance based).
  2. The system must be capable of analyzing a wide variety of nanoparticles including but not limited to; extracellular vesicles and other biological entities.
  3. It must be capable of measuring a minimum particle size of 50nm diameter.
  4. The system must be capable of providing a high screening rate (>10,000 per second)
  5. Size measurement accuracy and reproducibility must be >+/- 10% in different sized particle mixtures
  6. The system must operate with the accuracy and speed for samples with concentration of  $>10^7$ particle/ml.
  7. Must be able to operate without the need to clean between multi-sample analysis.
  8. The system must be bench top size: <30 inch wide x <25 inches deep x <10 inches height
  9. Power supply requirements are 1. 115V AC; 2. 50-60Hz; 3. 3A max;
  10. The equipment must meet all CSA or ULC standards prior to commissioning.
  11. Technical Requirements for cartridges
    - 11.1 The cartridge must operate without clogging of the analysis zone
    - 11.2 The cartridge must include prefiltering options to screen out particles of size greater the target size.
    - 11.3 The cartridge must be able to screen  $\leq 3$  microliter of sample
  12. Hardware and Software Requirements
    - 12.1 The system must include a Windows based dedicated workstation with all appropriate software connectivity to WiFi and LAN, including software for remote support
    - 12.2 The software must provide clear data analysis with appropriate data visualization for size distribution.
    - 12.3 The software must be intuitive and provide a clear streamlined process for measurement and analysis.
  13. Installation:
    - a. The contractor must deliver, install, integrate and configure all deliverables.

4. This procurement is subject to the following trade agreement(s):

Canadian Free Trade Agreement (CFTA)  
Canada-Chile Free Trade Agreement (CCFTA)  
Canada-Colombia Free Trade Agreement (CCOFTA)  
Canada-Honduras Free Trade Agreement (CHFTA)  
Canada-Korea Free Trade Agreement (CKFTA)  
Canada-Panama Free Trade Agreement (CPFTA)

5. Set-aside under the Procurement Strategy for Aboriginal Business: Not Applicable

6. Comprehensive Land Claims Agreement(s): Not applicable

7. Justification for the Pre-Identified Supplier

Spectradyne LLC is the sole supplier that can offer the system compatible with the existing system being utilized by the NRC and their collaborating partner.

8. Government Contracts Regulations Exception(s)

The following exception(s) to the *Government Contracts Regulations* is (are) invoked for this procurement under subsection 6(d) - "only one person is capable of performing the work".

9. Exclusions and/or Limited Tendering Reasons

The following exclusion(s) and/or limited tendering reasons are invoked under the:

- a. Canadian Free Trade Agreement (CFTA) – Article 513 (1) (b) (iii): due to an absence of competition for technical reasons;
- b. Canada-Chile Free Trade Agreement (CCFTA) – Article Kbis-16 (2) (c):
- c. Canada-Colombia Free Trade Agreement (CCOFTA) – Article 1409 (1) (b) (iii): due to an absence of competition for technical reasons;
- d. Canada-Honduras Free Trade Agreement (CHFTA)– Article 17.11 (2) (b) (iii): due to an absence of competition for technical reasons;
- e. Canada-Korea Free Trade Agreement (CKFTA)– referencing the WTO Protocol Amending the GPA, Article XIII (1) (b) (iii): due to an absence of competition for technical reasons;
- f. Canada-Panama Free Trade Agreement (CPFTA)– Article 16.10 (1) (b) (iii): because of the absence of competition for technical reasons;
- g. into and made part of this Agreement. (CETA) Article 19.12 (b) (iii).

10. Ownership of Intellectual Property: The Crown will have the right to use once purchased. All IP generated will belong entirely with NRC and its research partners.

11. Period of the proposed contract or delivery date: The system is expected to be delivered on or before March 28, 2024.

12. Cost estimate of the proposed contract

The estimated value of the contract \$ 166,711.16. This does not include optional warranty period.

13. Name and address of the pre-identified supplier

Spectradyne LLC  
2501 Cherry Ave., Suite 140  
Signal Hill, CA 90744  
[sales@spectradynellc.com](mailto:sales@spectradynellc.com)

14. Suppliers who consider themselves fully qualified and available to provide the goods, services or construction services described in the ACAN may submit a statement of capabilities in writing to the contact person identified in this notice on or before the closing date of this notice. The statement of capabilities must clearly demonstrate how the supplier meets the advertised requirements.

15. The closing date and time for accepting statements of capabilities is February 22, 2024 at 2:00 pm ET.

16. Inquiries and statements of capabilities are to be directed to:

Carol Cooper  
Senior Contracting Officer  
Telephone: 902 293 8053  
E-mail: [carol.cooper@nrc-cnrc.gc.ca](mailto:carol.cooper@nrc-cnrc.gc.ca)