

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

**23-58211**

### **4 Bioreactors Type DasGip with autosampler and upgrading 2 DasGip**

#### **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**

To coordinate with existing equipment, the Human Health Therapeutics Research Center of the National Research Council of Canada (NRC) requires additional purchase of 4-vessel DASgip Bioreactor model SR 1500ODLS, including process computer for small scale systems, including operation system (OS) software, DASware® control 6 with licenses, and PC hardware interface and boxes to connect to the existing master controller for increasing the capacity of parallel experiments to 12 vessels.

The HHT must acquire an automated sampler with compatible designed for DASgip type bioreactors model SR 1500ODLS with 4 vessels. The Bioreactor and autosampler must communicate directly with each other for operation, programming and automatic sample planning during fermentations. Therefore, the autosampler must operate under the same operation system (OS) software, DASware® control 6 with its license due to compatibility.

Finally, NRC must upgrade the existing 2 DASGip to ensure proper operation. Two process computers for small scale systems, including operation system (OS) software, DASware® control 6 with licenses, and PC hardware must be purchased to upgrade to DASware 6 software. The existing computers needs to be replaced, therefore both systems will be upgraded from DASware® control 5 to 6.

The equipment that NRC desire to acquire must include the following component:

- 4-vessel DASgip Bioreactor model SR 1500ODLS and its interface boxes.
- Upgrade of the main operation system (OS) software, DASware® control 6.
- Upgrade of the main operating system of the existing 2 DASgips under operation system (OS) software, DASware® control 6.

- Addition of an automatic sampler for 4 vessels communicating with the operation system (OS) software, DASware® control 6.
- Upgrade the main operating system for the bioprocess autosampler.

### **3. Criteria for assessment of the Statement of Capabilities (Minimum Essential Requirements)**

Any interested supplier must demonstrate by way of a statement of capabilities that its Bioreactors Type DASgip with autosampler and upgrading DASgip meets the following requirements:

Capacity for the proposed system to carry out microbial culture in bioreactors of the DASgip SR 1500ODLS type with 4 Eppendorf vessels to allow compatibility and comparability between the existing equipment of the Microbial Sector Pilot Plant Installation.

- Same material in contact with cells and product
- Same bioreactor design as those used by the Microbial Sector Pilot Plant (feed control, speed control, impeller, vessels, gas mixing module, mass flow controller, peristaltic pump module).
- Same programming scrip.

The equipment must include the following components:

#### **Description of the DASgip system**

- Parallel culture for 4 containers for volumes from 200 ml to 1.8 L multiple with controlled conditions.
- Process computer under Windows 10 including operation system (OS) software, DASware® control 6 with licenses, and PC hardware interface
- Temperature control from 4 to 99°C
- Recirculating chiller, closed cooling circuit
- Stirring speeds from 30 to 1,250 rpm
- Flow rates 0.3 mL/h to 5 L/h (continuous) Gassing TMFC/Rotameter
- Standard gas mixture Air, O<sub>2</sub>, CO<sub>2</sub>, N<sub>2</sub> (other gases on request)
- Standard gas flow rates 0.1 – 1200 sL/h
- Control of cultivation parameters in a single system; pH, oxygen, temperature, agitation, anti-foam, OD measurement, Exhaust gas condensation Water cooled.

#### **Description of the autosampler:**

- Aseptic operation without the use of a laminar flow cabinet
- Compatible with different-sized glass and BioBLU single use Bioreactors with working volumes of 60ml to 1.8L
- Suitable for 1.5ml and 10ml sample vial, up to 648 samples can be stored
- Enable regular sample 24/7
- Automated sample storage with temperature controlled from 4 to 40°C

- Modular design that facilitates expansion of the number of bioreactors to be sampled and retrofitting of existing bioprocess systems
- Control of the Bioprocess Autosampler is integrated in operation system (OS) software, DASware® control 6.
- It contains one sampling port per bioreactor and can sample up to 4 tanks.

**Description of the 2 DASgip update:**

- Two process computers under Windows 10 including operation system (OS) software, DASware® control 6 with licenses, and PC hardware interface
- Installation and commissioning.

**4. Applicability of the trade agreement(s) to the procurement**

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

- *Canadian Free Trade Agreement (CFTA)*
- *Revised World Trade Organization - Agreement on Government Procurement (WTO-AGP)*
- *Canada-European Union Comprehensive Economic and Trade Agreement (CETA)*
- *Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP)*
- *Canada-Chile Free Trade Agreement (CCFTA)*
- *Canada-Colombia Free Trade Agreement*
- *Canada-Honduras Free Trade Agreement*
- *Canada-Korea Free Trade Agreement*
- *Canada-Panama Free Trade Agreement*
- *Canada-Peru Free Trade Agreement (CPFTA)*
- *Canada-United Kingdom Trade Continuity Agreement (Canada-UK TCA)*
- *Canada-Ukraine Free Trade Agreement (CUFTA)*

**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**

- Due to commonality and compatibility with existing equipment, the pre-identified supplier, Eppendorf Canada, is the only one able to distribute Eppendorf equipment in Canada. The DASGIP® Parallel Bioreactor System operates with DASware and Eppendorf software & licenses and is the only supplier that can

provide identical system to the current systems already in place. The current two systems operate on a single software platform thus allowing data comparability and compatibility. NRC need absolute compatibility with the existing system for the components and the IT system. Existing bioreactors, probes, connectors, tubes, etc. can be used with new bioreactors and do not require modification. The existing scripts for process controls can be applied to this new addition.

The DASGIP® Parallel Bioreactor System is the only equipment that can operate with existing equipment, which, as stated above, comply to the following constraints.

- Same material in contact with cells and product
- Same bioreactor design as those used by the Microbial Sector Pilot Plant (feed control, speed control, impeller, vessels, gas mixing module, mass flow controller, peristaltic pump module).
- Same programming scrip.

## **8. Government Contracts Regulations Exception(s)**

The following exception(s) to the Government Contracts Regulations is (are) invoked for this procurement under subsection (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. World Trade Organization - Agreement on Government Procurement (WTO-AGP) – Article XIII (b) (iii): due to an absence of competition for technical reasons;
- c. Canada-European Union Comprehensive Economic and Trade Agreement (CETA) – Article 19.12 (b) (iii): due to an absence of competition for technical reasons;
- d. Comprehensive and Progressive Agreement for Trans-Pacific Partnership (CPTPP) – Article 15.10 (2) (b) (iii): due to an absence of competition for technical reasons;
- e. Canada-Chile Free Trade Agreement (CCFTA) – Article Kbis-16 (2) (c): necessary to protect intellectual property;
- f. Canada-Colombia Free Trade Agreement – Article 1409 (1) (b) (iii): due to an absence of competition for technical reasons;
- g. Canada-Honduras Free Trade Agreement – Article 17.11 (2) (b) (iii): due to an absence of competition for technical reasons;

- h. Canada-Korea Free Trade Agreement – referencing the WTO Protocol Amending the GPA, Article XIII (1) (b) (iii): due to an absence of competition for technical reasons;
- i. Canada-Panama Free Trade Agreement – Article 16.10 (1) (b) (iii): because of the absence of competition for technical reasons;
- j. Canada-Peru Free Trade Agreement (CPFTA) –Article 1409 (1) (b) (iii): due to an absence of competition for technical reasons;
- k. Canada-Ukraine Free Trade Agreement (CUFTA) – Annex 10-6 (2) (a): any form of preference, including set asides, to benefit micro, small and medium enterprises; and
- l. Canada-United Kingdom Trade Continuity Agreement: refer to CETA as the provisions of CETA are incorporated by reference into and made part of this Agreement. (CETA) Article 19.12 (b) (iii).

#### **10. Ownership of Intellectual Property**

Not applicable

#### **11. Period of the proposed contract or delivery date**

NRC is expecting the equipment to be delivered within the month of June 2024, based on the date of the contract.

#### **12. Name and address of the pre-identified supplier**

Eppendorf Canada  
7-2900 Argentia Road  
Mississauga, Ontario  
L5N 7X9

#### **13. Suppliers' right to submit a statement of capabilities**

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.

#### **14. Closing date for a submission of a statement of capabilities**

The closing date and time for accepting statements of capabilities is February 27, 2024 at 2:00PM EST.

## **15. Inquiries and submission of statements of capabilities**

E-mail: Name: Kacendra Dion

Title: Senior Contracting Officer

Organization: National Research Council Canada

Telephone: 438-324-8125

E-mail address: [Kacendra.Dion@cnrc-nrc.gc.ca](mailto:Kacendra.Dion@cnrc-nrc.gc.ca)