



**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Bid Receiving Public Works and Government  
Services Canada/Réception des  
soumissions/Travaux publics et Services  
gouvernementaux Canada  
See herein for bid submission  
instructions/  
Voir la présente pour les  
instructions sur la présentation  
d'une soumission  
NA  
Ontario

## REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

### Proposal To: Public Works and Government Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

### Proposition aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

### Comments - Commentaires

### Vendor/Firm Name and Address

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

### Issuing Office - Bureau de distribution

Public Works and Government Services Canada  
Ontario Region  
10th Floor, 4900 Yonge Street  
Toronto  
Ontario  
M2N 6A6

<b>Title - Sujet</b> Glove Box - NRC Ontario	
<b>Solicitation No. - N° de l'invitation</b> 31184-202326/A	<b>Date</b> 2020-07-23
<b>Client Reference No. - N° de référence du client</b> 31184-202326	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-003-7956	
<b>File No. - N° de dossier</b> TOR-0-43031 (003)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2020-08-19</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Daylight Saving Time EDT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Somaratna, Chinthaka	<b>Buyer Id - Id de l'acheteur</b> tor003
<b>Telephone No. - N° de téléphone</b> (416) 305-7369 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> NATIONAL RESEARCH COUNCIL CANADA 2655 North Sheridan Way, Suite 135 Mississauga Ontario L5K2P8 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**REQUEST FOR PROPOSAL**

**FOR**

**GLOVE BOX**

**REQUIRED BY**

**NATIONAL RESEARCH COUNCIL CANADA (NRC)**

**SOLICITATION No.: 31184-202326/A**

**PWGSC Contracting Authority:**

**Chinthaka Somaratna**  
**10<sup>th</sup> Floor, 4900 Yonge Street**  
**Toronto, Ontario M2N 6A6, Canada**  
**Telephone: 416-305-7369**  
**Email: [chinthaka.somaratna@pwgsc-tpsgc.gc.ca](mailto:chinthaka.somaratna@pwgsc-tpsgc.gc.ca)**

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Buyer ID - Id de l'acheteur  
TOR003  
CCC No./N° CCC - FMS No./N° VME

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Requirement**

The requirement is detailed under Article 6.2, Part 6 - Resulting Contract Clauses.

### **1.2 Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### **1.3 Trade Agreements**

The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA).

### **1.4 Epost Connect Service**

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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## PART 2 - BIDDER INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

- 2.1.1** All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.
- 2.1.2** Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.
- 2.1.3** The 2003 (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.
- 2.1.4** The following modification is to the standard instructions 2003:  
Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:  
Delete: sixty (60) days  
Insert: ninety (90) days

#### 2.1.5 SACC Manual Clauses

SACC Manual clause **B1000T** (2014-06-26) – Condition of Material - Bid

### 2.2 Submission of Bids – Epost only

- 2.2.1** Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the RFSO.  
[TPSGC.oreceptiondessoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.oreceptiondessoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca) (email address for epost Connect service)

**Note: Bids will not be accepted if emailed directly to this email address.** This email address is to be used to open an epost Connect conversation, as detailed in Standard Instruction **2006**, or to send offers through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six (6) days before the Request for Proposals closing date.

- 2.2.2** Due to the nature of the bid solicitation, bids transmitted by facsimile or hardcopy to PWGSC will not be accepted.

### 2.3 Enquiries - Bid Solicitation

- 2.3.1** All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) calendar days before the bid closing date. Enquiries received after that time may not be answered.
- 2.3.2** Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that

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the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

## **2.4 Applicable Laws**

**2.4.1** Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

**2.4.2** Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

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## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

- 3.1.1** If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid  
Section II: Financial Bid  
Section III: Certifications  
Section IV: Additional Information

Bids transmitted by facsimile or hardcopy will not be accepted.  
Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

### **3.2 Section I: Technical Bid**

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

### **3.3 Section II: Financial Bid**

- 3.3.1** Bidders must submit their financial bid in accordance with the Basis of Payment in Annex B. The total amount of Applicable Taxes must be shown separately, if applicable.

#### **3.3.2 Electronic Payment of Invoices**

- (i) If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex C - Electronic Payment Instruments, to identify which ones are accepted.
- (ii) If Annex C - Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.
- (iii) Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

### **3.4 Section III: Certifications**

Bidders must submit and comply with the certifications and additional information required under Part 5 that have not been included in their Technical Bid.

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## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

### **4.2 Technical Evaluation**

#### **(a) Mandatory Technical Criteria**

The proposed Thermographic Camera must meet the mandatory criteria in Attachment 4.1 – Bid Evaluation Criteria. Failure to meet any one of the mandatory criteria will result in your bid being declared non-responsive.

### **4.3 Financial Evaluation**

#### **(a) Mandatory Financial Criteria**

- (i) The Bidder must submit with its bid, pricing details in accordance with Annex B - Basis of Payment, in Canadian dollars.
- (ii) The Total Evaluated Price will be the sum of the Total Extended Price (accumulated TOTAL prices of all Items 1 through 4) of the Firm Requirement in Annex B - Basis of Payment.
- (iii) The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

### **4.4 Basis of Selection – Mandatory Technical Criteria**

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.



## ATTACHMENT 1

### Mandatory Bid Evaluation Criteria (MC)

The Bidder must provide documentation in their bid demonstrating that their proposed fully functional glove box meets each and every criterion. Supporting documentation could include but not limited to, a printed operator's manual, printed technical/sales brochures and/or certifications. **Failure to provide supporting documentation may result in the bid being deemed non-responsive.**

#### 1. Mandatory Technical Criteria

#	Mandatory Criteria	Bidder's Response
		Identify where the supporting documentation is located in the bid. (Bidders to insert page number)
The Bidder must demonstrate that their proposed glovebox has the following specification, functions and accessories.		
MC1	The enclosure must be airtight and compliant with standard ISO 10648-2 (leak rate <0.05%vol./h) and designed to be capable of working in an argon atmosphere.	
MC2	The interface must provide the following readings: pressure, oxygen level and internal moisture level in the enclosure.	
MC3	The internal gas circulation system must be equipped with two filters; one for inflow gas and one for outflow gas. The enclosure and hoses must be made of at least type 304 stainless steel.	
MC4	A pair of gloves must be included and must not be an integral part of the system so they can be changed, as needed, and a system for protecting the airtightness of the working area while changing gloves must also be provided.	
MC5	Must be equipped with lighting located outside the enclosure to allow bulb replacement without breaching the internal atmosphere and to reduce the internal heat of the enclosure.	
MC6	Must be equipped with an automatic pressure control box and foot control.	
MC7	Must be equipped with an automatic controller with pressure interval settings in accordance with the safety standards of the glove box.	
MC8	The glove box must be equipped with a minimum of one air lock of a minimum of 380 mm.	
MC9	An inert gas purifier column must be an integral part of the glove box.	
MC10	An oxygen and humidity sensor must be part of the glove box. The detection limit of the oxygen sensor must be < 1ppm. The detection limit of the humidity sensor must be < 1ppm.	

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<b>MC11</b>	The equipment must be CSA or ULC-approved or certified by a recognized organization in Ontario.	
<b>MC12</b>	For external power, must include an AC adapter/cable for working with electrical voltage available: 120-volt, 1-phase. Any other voltage, if needed, must be obtained using a transformer and adapters/cables supplied by the supplier.	
<b>MC13</b>	For internal power, must include electrical feedthrough and fuse protected power strip (100-120 VAC, 1-phase)	

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## PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

### 5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

#### 5.1.1 Integrity Provisions – Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

### 5.2 Certifications Precedent to Contract Award and Additional Information

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to comply with the request of the contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

#### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

#### 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969#afed](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969#afed)).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](#)" list at the time of contract award.

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## PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### 6.1 Security Requirements

There is no security requirement applicable to the Contract.

### 6.2 Requirement

The Contractor must perform the Work in accordance with the Requirement at Annex "A".

### 6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### 6.3.1 General Conditions

2010A (2020-05-28), General Conditions – Goods (Medium Complexity), apply to and form part of the Contract.

### 6.4 Term of Contract

#### 6.4.1 Period of the Contract

The period of the Contract is from date of Contract award to January 30, 2022 inclusive.

#### 6.4.2 Delivery Date

All the deliverables must be received on or before January 31, 2021.

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Chinthaka Somaratna  
Title: Supply Specialist  
Organization: Public Works and Government Services Canada  
Acquisitions Branch - Ontario Region  
Address: 10th Floor, 4900 Yonge Street  
Toronto, Ontario, M2N 6A6  
Telephone: 416-305-7369  
E-mail address: [chinthaka.somaratna@pwgsc-tpsgc.gc.ca](mailto:chinthaka.somaratna@pwgsc-tpsgc.gc.ca)

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

#### 6.5.2 Project Authority (to be provided at Contract Award)

The Project Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

**6.5.3 Contractor's Representative** (to be provided with bid)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
PBN: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

**6.6 Payment**

**6.6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price, as specified in Annex B for a cost of \$ \_\_\_\_\_ (*insert the amount at contract award*). Customs duties are included and Applicable Taxes are extra. Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

**6.6.2 Limitation of Price**

SACC Manual clause C6000C (2017-08-17), Limitation of Price

**6.6.3 Single Payment**

SACC Manual clause H1000C (2008-05-12), Single Payment

**6.6.4 SACC Manual Clauses**

SACC Manual clause C2000C (2007-11-30), Taxes - Foreign-based Contractor

**6.6.5 Electronic Payment of Invoices**

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- i. Visa Acquisition Card;
- ii. MasterCard Acquisition Card;
- iii. Direct Deposit (Domestic and International);
- iv. Electronic Data Interchange (EDI);

- v. Wire Transfer (International Only); or
- vi. Large Value Transfer System (LVTS) (Over \$25M).

## 6.7 Invoicing Instructions

**6.7.1** The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

**6.7.2** Invoices must be distributed as follows:

- (i) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
- (ii) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## 6.8 Certifications and Additional Information

### 6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

## 6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_ (*insert the name of the province or territory as specified by the Bidder in its bid, if applicable*).

## 6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) these Articles of Agreement, including any individual SACC clauses incorporated by reference in these Articles of Agreement;
- (b) the general conditions 2010A (2020-05-28), General Conditions – Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment; and
- (e) the Contractor's bid dated \_\_\_\_\_. (*insert at time of contract award*)

## 6.11 SACC Manual Clauses

B7500C (2006-06-16) Excess Goods

## 6.12 Insurance

G1005C (2016-01-28), Insurance

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## ANNEX "A"

### REQUIREMENT

#### REQUIREMENTS

##### 1.0 Purpose

National Research Council Canada (NRC) wishes to acquire a glove box for the design, synthesis, manipulation, and characterization of micron- and nano-sized metallic, ceramic, composite and polymeric materials. The system must be compatible with potentially hazardous and oxygen sensitive powders, be airtight, and designed to be capable of operating in a dry inert atmosphere.

The equipment must be delivered to the NRC's Mississauga site and ready to use on or before January 31, 2021. All of the specifications indicated herein must be met.

**The delivered equipment must have the following specifications:**

##### **Mandatory Technical Specifications**

##### 1.1 Glove box

- 1.1.1 The enclosure must be airtight and compliant with standard ISO 10648-2 (leak rate <0.05%vol./h) and designed to be capable of working in an argon atmosphere.
- 1.1.2 Must be equipped with a variable speed atmosphere circulation fan
- 1.1.3 The glove box must be equipped with a touch-screen interface that controls the conditions inside the glove box
- 1.1.4 The user interface must be in English
- 1.1.5 The interface must provide the following readings: pressure, Oxygen level and internal moisture level in the enclosure.
- 1.1.6 The internal gas circulation system must be equipped with two filters; one for inflow gas and one for outflow gas. The enclosure and hoses must be made of at least type 304 stainless steel.
- 1.1.7 The window must be made of polycarbonate or equivalent so it is scratch- resistant.
- 1.1.8 A removable pair of gloves must be included. The gloves must not be built into the glovebox system so they can be changed as needed.
- 2.1.9 The glovebox must be able to remain airtight while the gloves are being changed
- 2.1.10 The glove box must be equipped with lighting located outside the enclosure to allow bulb replacement without breaching the internal atmosphere and to reduce the internal heat of the enclosure.
- 2.1.11 The glove box must be equipped with a minimum two adjustable stainless steel shelves.

- 2.1.12 The glove box must be equipped with an automatic pressure control box and manual pressure control.
- 2.1.13 The glove box must be equipped with an automatic controller with pressure interval settings
- 2.1.14 The glove box must contain an minimum internal workspace of 0.4 cubic metres

## 1.2 Air lock

- 1.2.1 The glove box must be equipped with a minimum of one air lock of a minimum of 380 mm.
- 1.2.2 Each air lock must include a sliding tray made of at least type 304 stainless steel.
- 1.2.3 The air lock must accommodate the transfer of hot plates, analytical balances and other items of similar size.

## 1.3 Gas purification system

- 1.3.1 An inert gas purifier column must be an integral part of the glove box
- 1.3.2 An oxygen and humidity sensor must be part of the glove box
- 1.3.3 The detection limit of the oxygen sensor must be < 1ppm
- 1.3.4 The detection limit of the humidity sensor must be < 1ppm
- 1.3.5 The glove box must contain a manual purge function and auto regeneration function

## 2.0 Deliverables

- 2.1 A set of tools specific to the equipment must be provided
- 2.2 One (1) copy of the technical documentation on the operation and maintenance of the equipment as part of the assembly, in English, must be provided in hard copy or electronic format
- 2.3 A list of spare parts required for normal operation

## 3.0 Delivery Location

National Research Council Canada  
2620 Speakman Drive  
Mississauga,  
ON, L5K 1B1  
Canada

## 4.0 General Information and services provided by NRC

- The equipment must be CSA or ULC-approved.
- 4.1 All safety or emergency labels must be in English or illustrated by symbols



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- 4.2** Electrical voltage available: 120-volt, 1-phase. Any other voltage, if needed, must be obtained using a transformer supplied by the supplier
- 4.3** Compressed argon: 620 kPa (90 psi); the diameter of the pipe and the required flow rate shall be communicated by the supplier before or upon delivery

## **5.0 WARRANTY, SERVICE, SUPPORT & UPDATES**

- 6.1** The Contractor must provide a minimum one (1) year warranty on parts and labour for the glove box. Warranty will begin on the day that the units have been delivered.
- 6.2** Support must include by e-mail, phone or internet, and a response within 24 hours of a services call.
- 6.3** If a software is provided, updates must be provided at no extra cost

## ANNEX "B"

### BASIS OF PAYMENT

The firm unit price must be an all-inclusive price for the supply and delivery of the requirement in accordance with Annex A – Requirement, in Canadian funds, including customs duties, all delivery and transportation charges, FOB destination, applicable taxes extra.

#### 1. Firm Requirement

**Contract Period:** Date of award to January 31, 2022.

Delivery of the product, within the contract period, must be received on or before January 31, 2021.

			A	B	C
Item	Description	Unit of Measure	Quantity	Firm Unit Price	Total Extended Price (AxB)
1	Supply and delivery of one fully functional glovebox with right handed air locks in accordance with Annex A, Requirement including a twelve (12) month warranty on parts and labour. Including support by email, phone or Internet, connection within a maximum of 24 hours following a service call.  Manufacturer/Brand:  Model Number:	Each	1	\$	\$
2	Delivery and transportation charges	Each	1		
3	If the above products require software to operate, software update for one (1) year (please indicate if required or not): <ul style="list-style-type: none"> <li>○ If <b>required</b>, please complete</li> <li>○ If <b>not required</b>, not required to complete</li> </ul>	Each	1		
<b>*Total Evaluated Price:</b>					<b>\$</b>

**\*At contract award, 'Total Evaluated Price' becomes 'Total Contract Price'.**

Solicitation No. - N° de l'invitation  
31184-202326/A  
Client Ref. No. - N° de réf. du client  
31184-202326

Amd. No. - N° de la modif.  
File No. - N° du dossier  
TOR-0-43031

Buyer ID - Id de l'acheteur  
TOR003  
CCC No./N° CCC - FMS No./N° VME

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## **ANNEX "C"**

### **ELECTRONIC PAYMENT INSTRUCTIONS**

#### **ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts to be paid by any of the following Electronic Payment Instrument(s):

- ☐ VISA Acquisition Card;
- ☐ MasterCard Acquisition Card;
- ☐ Direct Deposit (Domestic and International);
- ☐ Electronic Data Interchange (EDI);
- ☐ Wire Transfer (International Only);
- ☐ Large Value Transfer System (LVTS) (Over \$25M)

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31184-202326/A  
Client Ref. No. - N° de réf. du client  
31184-202326

Amd. No. - N° de la modif.  
File No. - N° du dossier  
TOR-0-43031

Buyer ID - Id de l'acheteur  
TOR003  
CCC No./N° CCC - FMS No./N° VME

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## ANNEX "D"

### ADDITIONAL CERTIFICATIONS

#### 1. Board of Directors

In accordance with Part 5 - Certifications and Additional Information, Article 5.2(a), Integrity Provisions – List of Names, Bidders are required to provide a complete list of names of all individuals who are currently directors of the Bidder before contract award. Bidders are requested to provide this information in their bid.

Director Name - _____	Title: _____
Director Name - _____	Title: _____
Director Name - _____	Title: _____
Director Name - _____	Title: _____
Director Name - _____	Title: _____
Director Name - _____	Title: _____
Director Name - _____	Title: _____
Director Name - _____	Title: _____

#### 2. Procurement Business Number (PBN)

In accordance with Section 02, Procurement Business Number of the [2003](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, Suppliers are required to have a Procurement Business Number (PBN) before contract award. Bidders are requested to provide their PBN with their bid.

Procurement Business Number - \_\_\_\_\_

Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.