



**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**

Public Works and Government Services / Travaux  
publics et services gouvernementaux  
Kingston Procurement  
Des Acquisitions Kingston  
86 Clarence Street, 2nd floor  
Kingston  
Ontario  
K7L 1X3  
Bid Fax: (613) 545-8067

**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 / Travaux publics et  
services gouvernementaux  
Kingston Procurement  
Des Acquisitions Kingston  
86 Clarence Street, 2nd floor  
Kingston  
Ontario  
K7L 1X3

<b>Title - Sujet</b> Portable Box Furnace	
<b>Solicitation No. - N° de l'invitation</b> 23584-180626/A	<b>Date</b> 2017-10-31
<b>Client Reference No. - N° de référence du client</b> 23584-18-0626	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$KIN-508-7324	
<b>File No. - N° de dossier</b> KIN-7-48111 (508)	<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 2017-12-11</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Weaver, Tammy	<b>Buyer Id - Id de l'acheteur</b> kin508
<b>Telephone No. - N° de téléphone</b> (613) 484-1809 ( )	<b>FAX No. - N° de FAX</b> (613) 545-8067
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATURAL RESOURCES 183 LONGWOOD RD SOUTH HAMILTON Ontario L8P0A5 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>

## TABLE OF CONTENTS

<b>PART 1 - GENERAL INFORMATION .....</b>	<b>2</b>
1.1 REQUIREMENT .....	2
1.2 DEBRIEFINGS .....	2
1.3 TRADE AGREEMENTS .....	2
<b>PART 2 - BIDDER INSTRUCTIONS .....</b>	<b>2</b>
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS .....	2
2.2 SUBMISSION OF BIDS .....	2
2.3 ENQUIRIES - BID SOLICITATION .....	2
2.4 APPLICABLE LAWS .....	3
<b>PART 3 - BID PREPARATION INSTRUCTIONS .....</b>	<b>3</b>
3.1 BID PREPARATION INSTRUCTIONS .....	3
<b>PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION .....</b>	<b>4</b>
4.1 EVALUATION PROCEDURES .....	4
4.2 BASIS OF SELECTION .....	4
<b>PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION .....</b>	<b>5</b>
5.1 CERTIFICATIONS REQUIRED WITH THE BID .....	5
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION .....	5
<b>PART 6 - RESULTING CONTRACT CLAUSES .....</b>	<b>6</b>
6.1 SECURITY REQUIREMENTS .....	6
6.2 REQUIREMENT .....	6
6.3 STANDARD CLAUSES AND CONDITIONS .....	6
6.4 TERM OF CONTRACT .....	6
6.5 AUTHORITIES .....	7
6.6 PAYMENT .....	7
6.7 INVOICING INSTRUCTIONS .....	8
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION .....	8
6.9 APPLICABLE LAWS .....	9
6.10 PRIORITY OF DOCUMENTS .....	9
6.11 SACC <i>MANUAL</i> CLAUSES .....	9
6.12 SHIPPING INSTRUCTIONS - FREE ON BOARD DESTINATION AND DELIVERED DUTY PAID .....	9
<b>ANNEX "A" .....</b>	<b>10</b>
REQUIREMENT .....	10
ANNEX "B" .....	15
BASIS OF PAYMENT .....	15
<b>ANNEX "C" TO PART 3 OF THE BID SOLICITATION .....</b>	<b>16</b>
ELECTRONIC PAYMENT INSTRUMENTS .....	16

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## PART 1 - GENERAL INFORMATION

### 1.1 Requirement

Natural Resources Canada – CanmetMATERIALS (CMAT) requires a portable reheating box furnace with the capability to operate using an inert internal atmosphere to minimize oxidation during the reheating process. This new piece of equipment will allow for more efficient hot rolling of smaller billets and finish rolling of transfer plates. It will also be useful in hot rolling processes done on the 50T STANAT laboratory rolling mill and in standalone heat treatment/quenching operations. The combined equipment capabilities will offer flexibility and reliability so that CMAT can deliver a variety of services to clients.

### 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 from 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 North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA)."

## PART 2 - BIDDER INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

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.

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.

The [2003](#) ([2017-04-27](#)) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

### 2.2 Submission of Bids

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 bid solicitation.

### 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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 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

Any resulting 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*).

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.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### 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.

#### Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

### 3.1.1 Electronic Payment of Invoices – Bid

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.

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.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

### 3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

### Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

## 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.

#### 4.1.1 Technical Evaluation

##### 4.1.1.1 Mandatory Technical Criteria

1. Bidders must submit documentation to demonstrate that their proposed products meet the mandatory requirements at Annex A:
  - 1.1 Documentation may include specification sheets or descriptive literature that demonstrates that the system offered meets the requirements at Annex A. If the specification sheets or literature DO NOT address a required specification the Bidder must submit a compliance statement for those items stating how the requirement is being met.
2. Bidders must provide a cross reference for each Mandatory Requirement by completing the table outlined in Annex “A”.

#### 4.1.2 Financial Evaluation

1. Bidders must not alter the pricing basis in anyway in Annex “B”.
2. The Lot price will be the evaluated price.
3. SACC Manual Clause A0220T (2014-06-26), Evaluation of Price

### 4.2 Basis of Selection

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

## **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 and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information 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 provide the certifications or the additional information listed below 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) (<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](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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.

## **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**

**6.1.1** There is no security requirement applicable to the Contract.

### **6.2 Requirement**

Natural Resources Canada – CanmetMATERIALS (CMAT) requires a portable reheating box furnace with the capability to operate using an inert internal atmosphere to minimize oxidation during the reheating process. This new piece of equipment will allow for more efficient hot rolling of smaller billets and finish rolling of transfer plates. It will also be useful in hot rolling processes done on the 50T STANAT laboratory rolling mill and in standalone heat treatment/quenching operations. The combined equipment capabilities will offer flexibility and reliability so that CMAT can deliver a variety of services to clients.

### **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) (<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](#) ([2016-04-04](#)), 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 to 2 months inclusive.

#### **6.4.2 Delivery Date**

All the deliverables must be received on or before 15 January 2018.

#### **6.4.3 Delivery Points**

Delivery of the requirement will be made to delivery point(s) specified at Annex "X" of the Contract.

183 LONGWOOD RD S  
HAMILTON, ON L8P 0A5

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## **6.5 Authorities**

### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Tammy Weaver  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
86 Clarence St., 2<sup>nd</sup> Floor  
Kingston, Ontario  
K7L 1X3

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 upon contract award)**

The Project Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_ \_\_\_\_ \_\_\_\_  
Facsimile: \_\_\_\_ \_\_\_\_ \_\_\_\_  
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**

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_ \_\_\_\_ \_\_\_\_  
Facsimile: \_\_\_\_ \_\_\_\_ \_\_\_\_  
E-mail address: \_\_\_\_\_

## **6.6 Payment**

### **6.6.1 Basis of Payment**



In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in 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 Single Payment**

### **H1000C (2008-05-12) Single Payment**

## **6.6.3 Electronic Payment of Invoices – Contract**

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

## **6.7 Invoicing Instructions**

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.
2. Invoices must be distributed as follows:
  - A. The original and one (1) copy must be forwarded to  
Fax 1-877-947-0987 or  
E-mail :NRCan.invoice\_imaging-service\_dimagerie\_des\_factures.RNCan@canada.
  - B. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
  - c. one (1) copy must be forwarded to the consignee.

## **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.

Solicitation No. - N° de l'invitation  
23584-180626/A  
Client Ref. No. - N° de réf. du client  
23584-18-0626

Amd. No. - N° de la modif.  
File No. - N° du dossier  
KIN-7-48111

Buyer ID - Id de l'acheteur  
KIN508  
CCC No./N° CCC - FMS No./N° VME

#### 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) the Articles of Agreement;
- (b) the general conditions 2010A (*2016-04-04*), General Conditions - Goods (Medium Complexity),
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (f) the Contractor's bid dated \_\_\_\_\_.

#### 6.11 SACC Manual Clauses

B1501C. Electrical Equipment (2006-06-16)

A9068C Government Site Regulations (2010-01-11)

#### 6.12 Shipping Instructions - Free on Board Destination and Delivered Duty Paid

Incoterms 2000 "DDP Delivered Duty Paid" to 183 LONGWOOD RD S HAMILTON, ON L8P 0A5.

## **ANNEX "A"**

### **REQUIREMENT**

#### ***Portable Box Furnace***

##### ***Requirement***

Natural Resources Canada – CanmetMATERIALS (CMAT) requires a portable reheating box furnace with the capability to operate using an inert internal atmosphere to minimize oxidation during the reheating process. This new piece of equipment will allow for more efficient hot rolling of smaller billets and finish rolling of transfer plates. It will also be useful in hot rolling processes done on the 50T STANAT laboratory rolling mill and in standalone heat treatment/quenching operations. The combined equipment capabilities will offer flexibility and reliability so that CMAT can deliver a variety of services to clients.

##### **Description of Equipment/Services being procured**

Industrial grade front-loading box-type furnace with tight temperature control and ability to add instrumentation (thermocouples) to the load. This equipment will be used in CMAT's metal processing operations as outlined in Annex "A".

The Bidder must supply a medium sized electric box-type industrial furnace for the reheating of ferrous alloys.

The Bidder must provide shipping, installation, commissioning, manuals and drawings for this equipment.

The objective of the equipment is to provide researchers with an essential tool for advanced materials studies by providing a unit capable of evenly and consistently heat treating batches of metal components. The unit must offer tight temperature control and capability of controlling an internal inert gas atmosphere up to a temperature of 1280°C.

The equipment consists of all the hardware and software required to achieve the above objective. No prototypes, demonstrator models, used, or refurbished equipment, in whole or in part will be considered acceptable.

#### ***1.1. Installation***

The Bidder is required to arrange and provide installation and/or set-up services, if required, using qualified personnel. Building service connections will be provided within 3 metres of the equipment footprint.

Bidder is responsible for obtaining any required permits. Final installation inspection is required to ensure CSA electrical compliance. This can be achieved by a third party inspection (Electrical Safety Authority, Entella are possible vendors). Bidder is responsible for correcting any deficiencies found by the inspector at no additional cost to NRCan.

All costs associated with the installation must be included in the firm lot price.

#### ***1.2. Commissioning***

Solicitation No. - N° de l'invitation  
23584-180626/A  
Client Ref. No. - N° de réf. du client  
23584-18-0626

Amd. No. - N° de la modif.  
File No. - N° du dossier  
KIN-7-48111

Buyer ID - Id de l'acheteur  
KIN508  
CCC No./N° CCC - FMS No./N° VME

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The Bidder must provide on-site commissioning at the NRCan facility in Hamilton, Ontario. All costs associated with the commissioning of the system, including travel and living expenses must be included in the price. The on-site commissioning of the system must be carried out by a qualified service technician at a mutually agreeable date, tentatively within 30 days of delivery.

The exact date, time and location of the commissioning will be mutually agreed between the Bidder and the Technical Authority stated herein.

All costs associated with the on-site commissioning must be included in the firm lot price.

### ***1.3. Manuals & Equipment Drawings***

The Bidder is to provide to NRCan, two (2) hard copies and one (1) electronic copy, in MS Word or PDF format, of the manuals which must include, but not limited to:

- Installation and startup manuals
- Calibration Procedure
- User Manuals
- Maintenance, Troubleshooting & Parts manual
- To be provided in English

## **2. Bidder Qualifications**

### ***2.1. Corporate Experience***

The Bidder must have designed and manufactured a minimum of two of the same or similar systems within the last 5 years. Provide Bidders must provide 2 excellent letters from clients proving they meet the above requirement.

### 3. Table A - Mandatory Equipment Requirements

Documentation may include specification sheets or descriptive literature that demonstrates that the system offered meets the requirements at Annex A. If the specification sheets or literature DO NOT address a required specification the Bidder must submit a compliance statement for those items stating how the requirement is being met.

Req. No.	Requirement	Meets Req't (Y/N)	Bidders must indicate where information can be found in the bid
A1	<b><u>EQUIPMENT CERTIFICATIONS</u></b>		
A1-1	The equipment must be CSA or ULC approved with visible markings. The bid price shall include any modifications necessary to ensure compliance with the electrical code and Canadian labour regulations. The equipment installation must be inspected and achieve ESA certification. Remediation is the vendor's responsibility at no additional cost.		
A1-2	Control of Hazardous energy – Lockout and Other Methods. The equipment must comply with CSA-Z460		
A1-3	Machine Guarding – If applicable, the equipment must comply with CSA-Z432-04		
A1-4	Other Certifications – The equipment must be built and operate in accordance with the Canada Labour Code, Part II, and as a heating device must comply with the National Fire Code. Applicable regulations may include but are not limited to NFPA 79, 85, 86, and 86C.		
A2	<b><u>DESIGN BASIS</u></b>		
A2-1	The equipment must be new. No prototypes, demonstration models, used or refurbished equipment will be considered.		
A2-2	<b><i>Furnace process:</i></b> Heat a load of metallic material up to 1260°C in a controlled atmosphere of inert gas (argon).		
A2-3	Rigid construction – Outer shell to be of rigid construction, reinforced with structural members and having a minimum shell thickness of 1/8" steel. All outer surfaces must be painted with high temperature silicone based primer and enamel paint		
A2-4	Well Insulated – Well insulated chamber with minimal leaks. Outer shell temperature not to exceed 10% - 15% of internal furnace temperature.  <b><i>No asbestos or asbestos products can be used in the manufacture of the furnace equipment.</i></b>		
A3	<b><u>EQUIPMENT PERFORMANCE</u></b>		
A3-1	<b><i>Minimum interior working dimensions:</i></b> 48 cm wide x 53 cm high x 63 cm deep		
A3-2	<b><i>Load Size:</i></b> Up to 90 kg		

Req. No.	Requirement	Meets Req't (Y/N)	Bidders must indicate where information can be found in the bid
A3-3	<b>Hearth Material:</b> High hot strength, non-corroding material at least 2 cm thick. Hearth must include a removable rack which can vertically support three plates measuring 250 mm high x 200 mm deep x 12 mm thick (rack can sit on top of hearth plate).		
A3-4	<b>Heat Source:</b> Electric heaters mounted in insulated material and protected from mechanical damage by the load.		
A3-5	<b>Furnace Door:</b> Tight fitting. Electrically or pneumatically operated by hand or a pneumatic switch.		
A3-6	<b>Temperature and variation:</b> Maximum 1280°C. Variation of +/- 11°C or less (point to point within working dimension).		
A3-7	<b>Furnace Casters:</b> Two (2) swivel and two (2) straight casters. The casters must allow for the furnace to be moved manually over a smooth surface and have locking wheels that can be engaged while the furnace is in place.		
A3-8	<b>Inert Atmosphere:</b> The furnace must include atmosphere tight construction. The Bidder will supply at least one inlet (with adjustment valves) for connection for an inert gas (argon) supply to the furnace chamber. The furnace must also include a flow control panel with a manual shut off, regulator, pressure gauge, flowmeter and regulating valve.		
A3-9	<b>Electrical Cord &amp; Plug:</b> At least a 12' electrical cord that can be plugged into a power source. The plug size is to be NEMA L17-30 (600V/3P/30A)		
A4	<b><u>AVAILABLE UTILITIES</u></b>		
A4-1	Equipment can connect to the following building services if needed. Bidder to supply any transformers, power conditioning or other components required to adapt to the available utilities. <b>Power:</b> 600V / 3P / 20Hz power available. <b>Air:</b> 110 psig / 120 scfm available		
A5	<b><u>CONTROLS</u></b>		
A5-1	PID temperature control with single setpoint and program modes. Overshoot protection. Auto tune.		
A5-2	Redundant over temperature controller and associated redundant sensor(s).		
A5-3	ISO accredited calibration, traceable back to a national reference standard.		
A6	<b><u>DOCUMENTATION</u></b>		
A6-1	Installation and operating manuals for the entire system – hard copy, electronic pdf or MS Word format, in English		
A6-2	Equipment drawings and equipment layout drawings with overall dimensions of the system and requirements for maintenance access		
A6-3	Electrical and mechanical schematic diagrams, including pneumatic systems.		
A6-4	Power and service requirements		
A7	<b><u>Bidder PERFORMANCE</u></b>		
A7-1	Response to a repair call within 72 hours.		

Solicitation No. - N° de l'invitation  
23584-180626/A  
Client Ref. No. - N° de réf. du client  
23584-18-0626

Amd. No. - N° de la modif.  
File No. - N° du dossier  
KIN-7-48111

Buyer ID - Id de l'acheteur  
KIN508  
CCC No./N° CCC - FMS No./N° VME

Req. No.	Requirement	Meets Req't (Y/N)	Bidders must indicate where information can be found in the bid
A7-2	Spare parts availability for 10 years from commissioning date.		
A7-3	Qualified service people available within 100 km. No airfare and accommodation charges for repair calls.		
A7-4	Warranty, 1 year parts & labour included in firm lot price.		
A8	<b><u>INSTALLATION, COMMISSIONING</u></b>		
A8-1	Provide commissioning services and demonstrate compliance with mandatory requirements.		

Solicitation No. - N° de l'invitation  
23584-180626/A  
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23584-18-0626

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Buyer ID - Id de l'acheteur  
KIN508  
CCC No./N° CCC - FMS No./N° VME

## ANNEX "B"

### Basis of Payment

Description	Qty	Lot Price
Portable Furnace Lot price is to include all information outlined in Annex "A"	1	
Total		



Solicitation No. - N° de l'invitation  
23584-180626/A  
Client Ref. No. - N° de réf. du client  
23584-18-0626

Amd. No. - N° de la modif.  
File No. - N° du dossier  
KIN-7-48111

Buyer ID - Id de l'acheteur  
KIN508  
CCC No./N° CCC - FMS No./N° VME

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## **ANNEX “C” to PART 3 OF THE BID SOLICITATION**

### **ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts 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)