



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

Bid Receiving - PWGSC / Réception des
soumissions - TPSGC
11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**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

Title - Sujet Bottom Loading Furnace High-Temperature Bottom Loading Furnace	
Solicitation No. - N° de l'invitation 23240-220512/A	Date 2021-11-04
Client Reference No. - N° de référence du client 23240-220512	
GETS Reference No. - N° de référence de SEAG PW-\$\$HL-671-80547	
File No. - N° de dossier hl671.23240-220512	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2021-12-15 Heure Normale du l'Est HNE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Hiltz, Jackson	Buyer Id - Id de l'acheteur hl671
Telephone No. - N° de téléphone (613) 296-6611 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Fuel & Construction Products Division
L'Esplanade Laurier,
140 O'Connor Street,
East Tower, 4th floor,
Ottawa
Ontario
K1A 0S5

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



Destination Code - Code destinataire	Destination Address - Adresse de la destination	Invoice Code - Code bur.-comptable	Invoice Address - Adresse de facturation
D - 1	Natural Resources Canada 555 Booth Street, Room 2-210A Ottawa, Ontario K1A 0G1	I - 1	USE ONE of the following methods: UTILISEZ UNE des méthodes suivantes: 1) Fax / Par télécopieur: 1-877-947-0987 2) E-mail/ Par courriel: NRCan.invoice_imaging- service_dimagerie_des_factures.RNCan@canada. ca (PDF format only / PDF seulement)



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	High Temperature Bottom Loading Furnace In accordance with the requirement at Annex "A".	D - 1	I - 1	1	Each	\$ XXXXXXXXXXXXX	See Herein – Voir ci-inclus	

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	2
1.1 SECURITY REQUIREMENTS	2
1.2 REQUIREMENT	2
1.3 DEBRIEFINGS	2
1.4 EPOST CONNECT	2
PART 2 - BIDDER INSTRUCTIONS	3
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	3
2.2 SUBMISSION OF BIDS	3
2.3 ENQUIRIES - BID SOLICITATION	3
2.4 APPLICABLE LAWS	4
2.5 BEST DELIVERY DATE - BID	4
2.6 BID CHALLENGE AND RECOURSE MECHANISMS	4
PART 3 - BID PREPARATION INSTRUCTIONS	5
3.1 BID PREPARATION INSTRUCTIONS	5
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	6
4.1 EVALUATION PROCEDURES	6
4.2 BASIS OF SELECTION – MANDATORY TECHNICAL CRITERIA	6
PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION	7
5.1 CERTIFICATION REQUIRED WITH THE BID	7
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	7
PART 6 - RESULTING CONTRACT CLAUSES	10
6.1 SECURITY REQUIREMENTS	10
6.2 REQUIREMENT	10
6.3 STANDARD CLAUSES AND CONDITIONS	10
6.4 TERM OF CONTRACT	10
6.5 AUTHORITIES	10
6.6 PAYMENT	11
6.7 INVOICING INSTRUCTIONS	11
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION	12
6.9 APPLICABLE LAWS	12
6.10 PRIORITY OF DOCUMENTS	12
6.11 SACC MANUAL CLAUSES	12
6.12 INSPECTION AND ACCEPTANCE	12
6.13 SHIPPING INSTRUCTIONS	12
6.14 DISPUTE RESOLUTION	13
ANNEX “A”	1
ANNEX “B”	1
ANNEX “C” TO PART 3 OF THE BID SOLICITATION	1
ELECTRONIC PAYMENT INSTRUMENTS	1

Solicitation No. - N° de l'invitation
23240-220512/A
Client Ref. No. - N° de réf. du client
23240-220512

Amd. No. - N° de la modif.
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HL671.23240-220512

Buyer ID - Id de l'acheteur
HL671
CCC No./N° CCC - FMS No./N° VME

PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement applicable to the requirement.

1.2 Requirement

The requirement is detailed under Article 6.2 of the resulting contract clauses.

1.3 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.

1.4 Epost Connect

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.

Given that many people are currently working from home and in an effort to reduce the spread of the coronavirus disease (COVID-19) within communities, offerors are highly encouraged to transmit their bid electronically using the epost Connect service. Information on the epost Connect service can be found in Part 2 entitled Offeror Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation.

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](#) (2020-05-28) 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

2.1.1 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
B1000T	Condition of Material - Bid	2014-06-26

2.1.2 Subject To Prior Sale

Submission of firm delivery is mandatory, therefore if a proposal is marked "Subject to Prior Sale" or if the bid does not conform to the bid validity period expressed herein, the bid will be considered non responsive.

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 in the bid solicitation.

Note: For bidders choosing to submit using epost Connect for bids closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

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 Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (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 Ontario.

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.

2.5 Best Delivery Date - Bid

While delivery is requested by March 31, 2022, the best delivery that could be offered is:

_____.

2.6 Bid Challenge and Recourse Mechanisms

(a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.

(b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:

- Office of the Procurement Ombudsman (OPO)
- Canadian International Trade Tribunal (CITT)

(c) Suppliers should note that there are strict deadlines for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Due to the nature of the RFP, offers transmitted by mail/courier to PWGSC BRU will not be accepted.

Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

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

- Section I: Technical Bid
- Section II: Financial Bid
- Section III: Certifications

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

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 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
C3011T	Exchange Rate Fluctuation	2013-11-06

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

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

4.1.1.1 Mandatory Technical Criteria

The Mandatory Technical Criteria are indicated at Annex "B".

- a) The Bidder must provide documentation showing how they meet the technical requirements detailed in Annex "B".

Bids not meeting these mandatory technical criteria will be declared non-responsive.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

- a) The Bidder must bid a firm price in Canadian funds, Applicable Taxes excluded, DDP Delivered Duty Paid to destination(s) Incoterms 2000, Customs Duties included for each item offered; and
- b) The Bidders' financial bid must be in accordance with the Basis of Payment.

4.2 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.

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 Certification 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 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 property 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 (<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.

5.2.3 Rate or Price Certification

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
C0001T	Price Certification - Foreign Suppliers	2007-05-25
C0002T	Price Certification - Canadian-based Suppliers (other than agency and resale outlets)	2010-01-11
C0004T	Price Certification - Canadian Agency and Resale	2007-05-25

	Outlets	
C0008T	Price Support - Non-competitive Bid	2007-05-25

5.2.4 Canada Environmental, Socio-Economic and Accessibility Initiative Certification

The Bidder must select and complete one of the following four certification statements.

- 1) The Bidder certifies that the Bidder is registered or meets ISO 14001.

 Bidders' Authorized Representative Signature

 Date

OR

- 2) The Bidder certifies that it meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of eight (8) criteria identified in the table below.

The Bidder must indicate which four (4) criteria, as a minimum, are met.

Environmental criteria within the Bidders' organization	Insert a checkmark for each criterion that is met
Promotes a paperless environment through directives, procedures and/or programs	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling programs or policies on, but not limited to, the following: <ul style="list-style-type: none"> - Greenhouse Gas (GHG) Reduction - GHG inventory - eWaste - Waste audits - Energy efficiency - Green procurement - Fleet requirements (green vehicles, vehicle tracking, low resistance tires, tire recycling, emission reduction, etc.) - LED lighting - Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program - Motion-sensored lighting - Solar/wind programs 	

Solicitation No. - N° de l'invitation
23240-220512/A
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Amd. No. - N° de la modif.
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CCC No./N° CCC - FMS No./N° VME

A minimum of 50% of office equipment has an energy efficient certification.	
Other Environmental or Green Registration or Certification. The Bidder should provide a brief description of the program in place in their bid.	
Other environmental initiatives and programs in place The Bidder should provide a brief description of the program in place in their bid.	

Bidders' Authorized Representative Name & Signature Date

OR

- 3) The Bidder certifies that it manages and encourages targeted underrepresented suppliers, supplier ownership and groups (i.e., visible minorities, women, youth, and veterans of the Canadian Armed Forces) through the use of Human Resource (HR) policies, training or skills development policies or program, employment, scholarships, etc.

The Bidder should provide a brief description of the program in place in their bid.

Bidders' Authorized Representative Name & Signature Date

OR

- 4) The Bidder certifies that it manages and encourages indigenous suppliers, supplier ownership and groups through the use of Human Resource (HR) policies, training or skills development policies or program, employment, scholarships, etc.

The Bidder should provide a brief description of the program in place in their bid.

Bidders' Authorized Representative Name & Signature Date

Note: The Bidder may be required to further demonstrate its certification statement by submitting, upon request from the contracting authority, the following information:

- i) A detailed description of initiative(s) or program(s)
- ii) Proof of initiative(s) or program(s) (certificate, report, audit, action plan, policy, etc.).

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

The Contractor must provide the items detailed under the "Line Item Detail" 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 Delivery Date

All the deliverables must be received on or before _____. (*insert the date*)

6.4.2 Adherence to Delivery Schedule

The contractor will promptly give notice to the Contracting Authority of its inability to meet the contract delivery schedule and will request therein an extension of time stating its proposed revised delivery schedule and offering consideration for such revisions. Until such notice is received and the revised delivery schedule agreed to, the Minister may, pursuant to the General Conditions, on the business day following the due date of delivery of any outstanding materials, terminate the whole or part of the contract for default.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Jackson Hiltz

Public Works and Government Services Canada

Acquisitions Branch, Commercial & Alternative Acquisitions Management Sector

Industrial Products and Vehicles Procurement Directorate

Fuel & Construction Products Division (HL)

140 O'Connor Street, 4th Floor, L'Esplanade Laurier, East Tower

Ottawa, ON K1A 0S5

Telephone: 613-296-6611

E-mail address: Jackson.Hiltz@tpsgc-pwgsc.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 Technical Authority

The Technical Authority for the Contract is:

(inserted at contract award)

The Technical Authority named above 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 Technical Authority, however the Technical 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 and telephone number of the person responsible for:

	General Enquiries	Delivery Follow-up
Name:	_____	_____
Telephone No.:	_____	_____
Facsimile No.:	_____	_____
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 price, DDP to destination, as specified in the contract for a cost of \$ _____ CAD *(insert the amount at contract award)*. Customs duties 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 Terms of Payment

SACC Manual clause 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):

- Visa Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);

6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with Section 10 of 2010A, General Conditions - Goods (Medium Complexity). 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) the Articles of Agreement;
- (b) the General Conditions 2010A (2020-05-28) Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) the Contractor's bid dated _____ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: “, as clarified on _____” or “, as amended on _____” and insert date(s) of clarification(s) or amendment(s)*)

6.11 SACC Manual Clauses

The following terms and conditions are incorporated herein

SACC Reference	Section	Date
B7500C	Excess Goods	2006-06-16
D2025C	Wood Packaging Materials	2017-08-17
D9002C	Incomplete Assemblies	2007-11-30
G1005C	Insurance – No Specific Requirement	2016-01-28

6.12 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.13 Shipping Instructions

Goods must be consigned to the destination specified in the Contract and delivered DDP Delivered Duty Paid to NRCAN at 555 Booth Street, Room 2-210A, Ottawa, Ontario, Incoterms 2000 for shipments from commercial contractor.

The contractor is responsible for all delivery charges, administration, cost and risk of transport and customs clearance, including the payment of customs duties and applicable taxes.

Solicitation No. - N° de l'invitation
23240-220512/A
Client Ref. No. - N° de réf. du client
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Amd. No. - N° de la modif.
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HL671
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6.14 Dispute Resolution

- a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "**Dispute Resolution**"

ANNEX "A"

STATEMENT OF REQUIREMENT

The research facilities at CanmetMINING have a need for a high-temperature bottom loading furnace. A number of mandatory specifications, listed below, are required so that this furnace responds to our needs. The system must meet all of the mandatory technical requirements as specified below and the mandatory evaluation criteria as specified at Part 2.1 - Mandatory Technical Evaluation Criteria.

The contractor must provide a high-temperature bottom-loading furnace with all the following requirements:

1. The furnace must be rated at a temperature of 1800 °C.
2. The furnace must be configured vertically.
3. The heated workspace within the furnace must have a cylindrical geometry with a diameter of at least 125 mm and height of at least 150 mm.
4. The furnace must be equipped with a liner that protects the heating elements from sample contamination at high temperatures.
5. The furnace must be equipped with a bottom loading mechanism that allows the load to be raised into the heated zone and to be rapidly lowered out of the furnace in order to quench (rapid cooling) the sample.
6. The furnace must be equipped with a gas inlet and an envelope to allow operation in inert atmosphere.
7. The furnace must be equipped with a programmable microprocessor-based auto-tuning temperature controller with multi-segment capabilities mounted either in an integrated control panel or in a stand-alone control cabinet.
8. The furnace must be equipped with over-temperature protection.
9. The furnace must be equipped with digital acquisition capabilities to log (record) temperature data.
10. The furnace must be equipped with both control and over-temperature thermocouples (type: Pt80%Rh20%/Pt60%Rh40%).
11. A third thermocouple (type: Pt80%Rh20%/Pt60%Rh40%) that can be fitted from the platform of the bottom loading mechanism up to the load (load thermocouple) must be included with the capability to digitally measure its reading within the control unit.
12. Spares for the following consumables designed specifically for the furnace must be provided:
 - one spare set of heating elements
 - spare for all thermocouples (control, load, over-temperature)
13. The furnace must be compatible with 208/240 V, 60 Hz, and must not draw more than 10 kW.
14. The footprint of the furnace body must not exceed 70 cm width, 75 cm depth and 135 cm height.

Solicitation No. - N° de l'invitation

23240-220512/A

Client Ref. No. - N° de réf. du client

23240-220512

Amd. No. - N° de la modif.

File No. - N° du dossier

HL671.23240-220512

Buyer ID - Id de l'acheteur

HL671

CCC No./N° CCC - FMS No./N° VME

15. If the furnace comes with a stand-alone control cabinet, the footprint of that cabinet must not exceed 65 cm width, 55 cm depth and 65 cm height.

16. Manual(s) in English covering installation and operation instructions must be included.

ANNEX "B"

MANDATORY TECHNICAL EVALUATION CRITERIA

The following requirements are the mandatory technical evaluation criteria which will be evaluated during the Bid Evaluation. In addition the Contractor will be required to meet all of the mandatory technical requirements for the duration of the Contract

Bidders are requested to cross reference the mandatory technical criteria in a concise format by using page, paragraph(s) & sub-paragraphs as applicable to their supporting technical documentation.

ITEM	CRITERIA	REFERENCE TO SUBSTANTIATION IN THE TECHNICAL BID.
1	<p>Furnace heated workspace</p> <p>a) The heated workspace within the furnace must have a vertical cylindrical configuration with a diameter of at least 125 mm and a height of at least 150 mm.</p> <p>b) The central zone of the heated workspace must be able to safely reach a temperature exceeding 1725 °C.</p> <p>c) The heated workspace must be surrounded by a refractory liner protecting the heating elements from sample contamination</p> <p>d) The heating elements must be made of molybdenum disilicide,</p> <p>e) The load thermocouple must be fitted through the platform of the bottom loading mechanism.</p> <p>f) The control, over-temperature and load thermocouples must be made of Pt80%Rh20%/Pt60%Rh40%.</p>	
2	<p>Additional furnace characteristics</p> <p>a) The furnace must be equipped with gas inlet/outlet and an enclosure to allow operation in inert atmosphere.</p> <p>b) The furnace must be equipped with a bottom loading mechanism that allows the load to be raised in the heated zone and to be lowered out of the furnace in order to quench (rapid cooling) the sample.</p> <p>c) The total footprint of the furnace body must not exceed 70 cm width, 75 cm depth and 135 cm height.</p>	
3	<p>Control unit</p> <p>a) The control unit of the furnace must either be integrated within the furnace body as a panel or as a stand-alone cabinet with a footprint not exceeding 65 cm width, 55 cm depth and 65 cm height.</p> <p>b) The control unit must include a programmable microprocessor-based auto-tuning temperature controller which can store at least 10 programs, each with up to at least 20 segments</p> <p>c) The control unit must also include a thermocouple-based over-temperature controller.</p> <p>d) The control unit must also include functionalities to digitally measure the load thermocouple.</p> <p>e) Digital acquisition capabilities to continuously log (record) temperature data must be included.</p>	

Solicitation No. - N° de l'invitation
23240-220512/A
Client Ref. No. - N° de réf. du client
23240-220512

Amd. No. - N° de la modif.
File No. - N° du dossier
HL671.23240-220512

Buyer ID - Id de l'acheteur
HL671
CCC No./N° CCC - FMS No./N° VME

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);