



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving
- PWGSC

Voir dans le document/
See herein

NA

Quebec

NA

**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 High Temperature Cavity Blackbody	
Solicitation No. - N° de l'invitation W7701-227431/A	Date 2021-06-28
Client Reference No. - N° de référence du client W7701-227431	
GETS Reference No. - N° de référence de SEAG PW-\$QCV-025-18188	
File No. - N° de dossier QCV-1-44031 (025)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2021-07-26 Heure Avancée de l'Est HAE	
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: Novac, Ioana	Buyer Id - Id de l'acheteur qcv025
Telephone No. - N° de téléphone (438) 355-1366 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: MINISTERE DE LA DEFENSE NATIONALE RDDC Centre Recherches Valcartier 2459 ROUTE DE LA BRAVOURE QUEBEC Québec G3J1X5 Canada	

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

TPSGC/PWGSC
1550 Avenue d'Estimauville
Québec
Québec
G1J 0C7

Delivery Required - Livraison exigée Voir Doc.	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

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 SERVICE	2
PART 2 - BIDDER INSTRUCTIONS	2
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS.....	2
2.2 SUBMISSION OF BIDS	2
2.3 ENQUIRIES - BID SOLICITATION.....	3
2.4 APPLICABLE LAWS.....	3
2.5 BID CHALLENGE AND RECOURSE MECHANISMS	3
PART 3 - BID PREPARATION INSTRUCTIONS	4
3.1 BID PREPARATION INSTRUCTIONS	4
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION.....	5
4.1 EVALUATION PROCEDURES	5
4.2 BASIS OF SELECTION - MANDATORY TECHNICAL CRITERIA.....	5
PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION	5
5.1 CERTIFICATIONS REQUIRED WITH THE BID.....	6
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	6
PART 6 - RESULTING CONTRACT CLAUSES.....	8
6.1 SECURITY REQUIREMENTS	8
6.2 REQUIREMENT.....	8
6.3 STANDARD CLAUSES AND CONDITIONS.....	8
6.4 TERM OF CONTRACT	8
6.5 AUTHORITIES	8
6.6 PAYMENT	9
6.7 INVOICING INSTRUCTIONS	10
6.8 COMPLIANCE	10
6.9 APPLICABLE LAWS.....	10
6.10 PRIORITY OF DOCUMENTS	10
6.11 DEFENCE CONTRACT	10
6.12 SACC MANUAL CLAUSES.....	10
6.13 DISPUTE RESOLUTION	10
ANNEX "A" REQUIREMENT	12
ANNEX 1 TO PART 3 OF THE BID SOLICITATION - ELECTRONIC PAYMENT INSTRUMENTS	15
ANNEX 1 TO PART 4 OF THE BID SOLICITATION - MANDATORY TECHNICAL CRITERIA	16

PART 1 - GENERAL INFORMATION

1.1 Security Requirements

This requirement does not include a security 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 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."

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.

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.

2.2.1 Epost Connect

Bidders choosing to submit using epost Connect must send an email requesting to open an epost Connect conversation to the following address:

TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.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](#) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions->

[manual/1/2003/active](#)), or to send bids 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 days before the solicitation closing date.

[Steps to follow for the Bid Submission to Bid Receiving Unit \(BRU\) using epost Connect](https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect)
(<https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect>)

2.2.2 Facsimile

Facsimile number: 418-566-6168.

2.2.3 Bids transmitted by hardcopy to PWGSC will not be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 7 (seven) 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 Quebec.

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 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

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. 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
- Section IV: Additional Information

Bids transmitted by 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.

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 "X" Electronic Payment Instruments, to identify which ones are accepted.

If Annex 1 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

3.1.3 SACC Manual Clauses

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

The technical evaluation will be based on the mandatory technical criteria detailed in Annex C.

Bidders must demonstrate that the goods and/or services offered are compliant with each of these mandatory technical criteria with documents, brochures and/or technical drawings, which must be submitted with their proposal.

Bidders should complete the grid in Annex C and include it with their proposal.

4.1.2 Financial Evaluation

1. Bidders must submit firm prices, customs duties and excise taxes included, and Applicable Taxes excluded.
2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
3. Bidders must provide prices Delivered Duty Paid (DDP) **Saint-Jean-sur-Richelieu, QC**, Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on a DDP basis.

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 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 property 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.

5.2.3 OEM Certification

(a) Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit the OEM's certification regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). No Contract will be awarded to a Bidder who is not the OEM of the hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the

required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

- (b) If the hardware proposed by the Bidder originates with multiple OEMs, a separate certification is required from each OEM.
- (c) For the purposes of this bid solicitation, OEM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

Form 1	
OEM Certification Form	
This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.	
Name of OEM	_____
Signature of authorized signatory of OEM	_____
Print Name of authorized signatory of OEM	_____
Print Title of authorized signatory of OEM	_____
Address for authorized signatory of OEM	_____
Telephone no. for authorized signatory of OEM	_____
Fax no. for authorized signatory of OEM	_____
Date signed	_____
Solicitation Number	_____
Name of Bidder	_____

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 provide the items detailed under the "Requirement" at Annex "A", Requirement

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](#) (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 to September 1st 2022 inclusive.

6.4.2 Delivery Date

All the deliverables must be received on or before one month after the contract award.

6.4.3 Delivery Points

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Melania Ioana Novac
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address: Place Bonaventure, 800 de la Gauchetière Ouest, Suite 7300. South-West tower, Montréal, Quebec H5A 1L6
Telephone: 438-355-1366
E-mail address: melaniaioana.novac@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 Project Authority

The Project Authority for the Contract is (*To be completed at contract award*):

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

To be completed at contract award

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 firm unit prices as specified in Annex B "Basis of Payment" of the contract for a total cost of \$_____ (*to be completed 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 Electronic Payment of Invoices – Contract

(To be completed at contract award)

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

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.

Invoices must be distributed as follows:

- a) The invoice must be sent electronically to the client's e-mail address _____ (*to be completed at contract award*) while keeping in CC the contracting authority (melaniaiona.novac@tpsgc-pwgsc.gc.ca)

6.8 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 Québec.

6.10 Priority of Documents

(To be completed at contract award)

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), General Conditions - Goods (Medium Complexity)
 (c) Annex A, Requirement;
 (d) the Contractor's bid dated _____ (*to be completed at contract award*)

6.11 Defence Contract

SACC *Manual* clause [A9006C](#) (2012-07-16) (insert date) Defence Contract

6.12 SACC Manual Clauses

[G1005C](#) (2016-01-28), Insurance - No Specific Requirement

6.13 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.

N° de l'invitation - Solicitation No.

W7701-227431/A

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

W7701-227431

N° de la modif - Amd. No.

File No. - N° du dossier

QCV-1-44031

Id de l'acheteur - Buyer ID

QCV025

N° CCC / CCC No./ N° VME - FMS

(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".A

ANNEX "A" REQUIREMENT

1. TITLE

HIGH TEMPERATURE CAVITY BLACK-BODY

2. BACKGROUND

The High Temperature Black-body will be used as a reference in order to calibrate intensified UV sensors.

3. ACRONYMS

°C	Degree Celsius
DRDC:	Defence Research and Development Canada
IR:	Infrared
KVA:	kilo Volt Ampere
lbs:	Pounds
Mm:	millimeter
Nm:	nanometer
SOR:	Statement of Requirement
TA:	Technical Authority
µm:	micrometer
UV:	Ultraviolet
VAC	Volt Alternative Current
Hz	Hertz

4. REQUIREMENT

4.1 Minimum Requirements for High Temperature Cavity Black-body

The equipment must meet the following technical specifications.

Specifications	Value
Black-body type	Cavity
Minimum achievable temperature	1650°C
Aperture diameter	Minimum 25 mm, maximum 50 mm
Temperature uniformity	Less than $\pm 2^\circ\text{C}$ over aperture area
Emissivity	Greater than 0.97
Temperature Resolution (Minimal Set Temperature increment)	1°C
Temperature accuracy	Less or equal to 0.25% of temperature reading $\pm 2^\circ\text{C}$. (E.g., for a set temperature of 1000°C accuracy must be within $1000^\circ\text{C} \cdot 0.25/100 \pm 2^\circ\text{C} \leq \pm 4.5^\circ\text{C}$.)
Temperature Stability	Less than 1°C over a period of 8 hours. "Temperature variation must be less than 0.33°C over a period of 60 minutes"

Heating Rate	Max 60 minutes to reach and stabilize to a temperature of 1000°C or less. Max 150 minutes to reach and stabilize to maximum achievable temperature
Power requirements	220/240 Vac, 50-60 Hz
Dimensions	<= 36 x 24 x 30 in (Length x Width x Height) or <= 24 x 36 x 30 (Width x Depth x Height)
Weight	Less or equal to 82 kg (180 lbs)
Remotely controllable	Temperature Set point must be controllable via a serial interface (acceptable serial interfaces are: RS-232 serial port or an Ethernet port (RJ45). Temperature reading must also be available from that serial link.
Control Software provided	Either a standalone software running on Windows 10 or a web application/web interface if serial link is Ethernet.

4.2 ACCESSORIES

The Contractor must provide the following accessories for requirement 5.1:

Description	Required quantity
Power cord	1
User Manual (paper or digital format accepted)	1
Cable for remote control (either serial DB-9 if RS232 control port or RJ45 if ethernet control port)	1
Control software (can be embedded in temperature controller if software is a web application or web interface)	1

5. DELIVERABLES

5.1 Deliverables for requirement 5.1: High Temperature Black-body

A cavity Black-body, quantity of 1

5.2 Deliverables for requirement 5.2: Accessories

A Power Cord, quantity of 1

A user manual, quantity of 1

A Cable for remote control, quantity of 1

A Control Software only if the software is a software that must be installed on a computer, quantity of 1 (not required if the software is embedded in the temperature controller (e.g. Control is performed via a Web page or web application accessible by a standard web browser)

6. DATE OF DELIVERY

Deliverable 5.1 and 5.2 : Within 1 month after contract award.

N° de l'invitation - Solicitation No.

W7701-227431/A

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

W7701-227431

N° de la modif - Amd. No.

File No. - N° du dossier

QCV-1-44031

Id de l'acheteur - Buyer ID

QCV025

N° CCC / CCC No. / N° VME - FMS

8. DELIVERY LOCATION

Defence Research and Development Canada – Valcartier Research Centre
Building 53
2459 de la Bravoure Road
Québec, Québec
G3J 1X5
Canada

N° de l'invitation - Solicitation No.

W7701-227431/A

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

W7701-227431

N° de la modif - Amd. No.

File No. - N° du dossier

QCV-1-44031

Id de l'acheteur - Buyer ID

QCV025

N° CCC / CCC No./ N° VME - FMS

ANNEX 1 to PART 3 OF THE BID SOLICITATION - ELECTRONIC PAYMENT INSTRUMENTS

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)

ANNEX 1 to PART 4 OF THE BID SOLICITATION - MANDATORY TECHNICAL CRITERIA

1. MANDATORY EVALUATION CRITERIA

In their proposals, bidders must demonstrate they meet the following mandatory criteria. Failure to meet any of the mandatory criteria will render the bid non-compliant and it will be given no further consideration.

Bidders must demonstrate each of these mandatory technical criteria using technical documents / brochures / sheets / drawings, which must be submitted with their proposal.

	CRITERIA	MET	NOT MET	REFERENCE of the technical documentation of the proposed equipment
M1	Minimum achievable temperature 1650°C			
M2	Aperture diameter Minimum of 25 mm to a maximum of 50 mm			
M3	Emissivity Greater than 0.97			
M4	Temperature accuracy $\leq 0.25\%$ of temperature reading $\pm 2^\circ\text{C}$			
M5	Temperature Stability Temperature variation must be less than 0.33°C over a period of 60 minutes and less than 1°C over a period of 8 hours			
M6	Power requirements 220/240 Vac, 50-60 Hz			