

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving
PWGSC
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095

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 Solid-State Induction Heating Syste	
Solicitation No. - N° de l'invitation 31030-136450/A	Date 2013-11-01
Client Reference No. - N° de référence du client 31030-136450	
GETS Reference No. - N° de référence de SEAG PW-\$TOR-031-6408	
File No. - N° de dossier TOR-3-36158 (031)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-12-12	Time Zone Fuseau horaire Eastern Standard Time EST
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: Schmidt, Jeff	Buyer Id - Id de l'acheteur tor031
Telephone No. - N° de téléphone (905) 615-2058 ()	FAX No. - N° de FAX (905) 615-2060
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: NATIONAL RESEARCH COUNCIL CANADA 800 Collip Circle London Ontario N6G4X8 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Delivery Required - Livraison exigée See Herein	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

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PART 1 - GENERAL INFORMATION**1. Security Requirement**

There is no security requirement associated with this bid solicitation.

2. Requirement

The requirement is detailed under Article 2 of the resulting contract clauses.

While delivery is requested within 10 weeks of contract award, the best delivery that could be offered is _____.

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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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>) 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 (2013-06-01) 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: sixty (60) days
Insert: ninety (90) days

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.

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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

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.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies)

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. The total amount of Applicable Taxes must be shown separately.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

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.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

Each bid will be reviewed for compliance with the mandatory requirements of the bid solicitation. Bids that do not meet each and every mandatory requirement will be considered non-compliant and will receive no further consideration.

- 1. The proposed equipment (system) must meet the Mandatory Technical Specifications in Section 2, as outlined in Annex A, Requirement.
- 2. Bidder's must provide evidence (system specifications, publications, documented data or discussion points) including make and model to support the fact their system meets a specification. The Bidder must provide such evidence for each of the Mandatory Technical Specifications detailed in Section 2 of Annex A, Requirement
- 3. The Bidder must be either ISO 9001:2008 or ISO 9001:2000 certified by an International Organization for Standardization (ISO) recognized certification body and submit certification documents at the time of bid closing.

1.1.2 Financial Evaluation

- 1. Bidders must submit pricing in accordance with Annex B, Basis of Payment, with their bid at bid Closing.
- 2. SACC Manual Clause A0220T (2013-04-25) Evaluation of Price

2. Basis of Selection - Mandatory Technical Criteria

- 2.1 SACC Manual Clause A0031T (2010-08-16) Mandatory Technical Criteria

PART 5 - CERTIFICATIONS

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

The certifications provided by bidders to Canada are subject to verification by Canada at all times. 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 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website.

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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex A.

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.

3.1 General Conditions

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

3.2 Supplemental General Conditions

4001 (2013-01-28) Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

All the deliverables must be received within 10 weeks of Contract award.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Jeff Schmidt
Title: Supply Officer
Organization: Public Works and Government Services Canada
Acquisitions Branch
Address: 33 City Centre Dr.,
Mississauga, ON L5B 2N5

Telephone : 905-615-2058
Facsimile: 905-615-2060
E-mail address: jeff.schmidt@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

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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.

5.2 Project Authority

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.

5.3 Contractor's Representative

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone : _____

Facsimile: _____

E-mail address: _____

6. Payment

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

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price, as specified in Annex B, Basis of Payment for a cost of \$ _____. 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.

6.2 Single Payment

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

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 the address shown on page 1 of the Contract for certification and payment.

b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

8. Certifications

8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____.

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 supplemental general conditions 4001 (2013-01-28) Hardware Purchase, Lease and Maintenance;
- (c) the general conditions (2013-04-25) General Conditions - Goods (Medium Complexity);
- (e) Annex A, Requirement;
- (f) Annex B, Basis of Payment
- (g) the Contractor's bid dated _____.

11. Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

12. Electrical Equipment

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All electrical equipment supplied under the Contract must be certified or approved for use in accordance with the *Canadian Electrical Code*, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada.

ANNEX A REQUIREMENT

Solid-State Induction Heating System

1. Background

The National Research Council (NRC), London, ON, requires the supply, delivery, installation, commissioning, on-site technical training and on-site technical assistance of a Solid-State Induction Heating System. The Solid-State Induction Heating System will be used to support the Advanced Tooling Fabrication and Repair project as part of the Advanced Manufacturing and Design System (AMDS) Program at the NRC. As a part of the AMDS Program initiative, the system is required to add on to an existing laser cladding system in NRC London, ON to provide on-line pre-heating/post-heating to minimize cracking tendency during laser cladding for industrial tools/dies.

2. Mandatory Technical Specifications

2.1 Induction Heating Requirements

- 2.1.1 The system must have a solid-state induction power supply with 10 kHz frequency and output power in the range of 75 - 100 kW;
- 2.1.2 The system must have a remote heat station which is located up to 10 metres away from the power supply;
- 2.1.3 The system must have low impedance heating coils (e.g. single turn heating coils) that are properly matched with tapable capacitors and/or a variable ratio output isolation transformer;
- 2.1.4 The system must have the heating coil mounted on a robotic arm;
- 2.1.5 The system must have two single-turn heating coils (one with circular shape and the other with rectangular shape) have electromagnetic shield for shielding a magnetic field produced around the top and side surface of the circular coils;
- 2.1.6 All necessary RF cable assembly must be included;
- 2.1.7 The unit must include a RS232 or RS485 interface for close-loop temperature control.

2.2 Air-Cooled Chiller

- 2.2.1 The air-cooled chiller must have the capacity to remove heat from the induction heating unit for proper continuous operation.

2.3 Close-Loop Temperature Control Unit

- 2.3.1 The optical pyrometer must have temperature range from 50°C to 800°C (122°F to 1472°F);
- 2.3.2 The optical pyrometer must have laser sighting option;
- 2.3.3 The optical pyrometer must be mounted on a robotic arm;

2.3.4 The temperature controller must be used for closed-loop single set point temperature control for the induction heating unit with input from the optical pyrometer;

2.3.5 The temperature controller must include basic programming for up to 3 set points;

3. Certifications

3.1 Supplier must be either ISO 9001:2008 or ISO 9001:2000 certified by an International Organization for Standardization (ISO) recognized certification body;

3.2 All electrical equipment must be CSA or ESA approved upon delivery at the National Research Council, London, ON

4. Training and Support Requirements

The Contractor must:

4.1 Provide on-site technical training and installation at NRC London, ON;

4.2 Provide 1-year on-site technical assistance;

4.3 Provide one (1) operation manual;

4.4 Provide one (1) maintenance manual with listing of all major commercial components/parts including model/part number and original manufacturer's name;

4.5 Provide list of recommended spare parts;

4.6 Provide electrical schematics ("as built");

4.7 Provide general arrangement drawings of major assemblies and sub-assemblies ("as built");

4.8 Provide one (1) hard (paper) copy for all training and support documentation;

4.9 All documentation and communication in English;

4.10 Provide specifications and dimensions of the induction heating power supply, remote heat station and air-cooled chiller.

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ANNEX B BASIS OF PAYMENT

Prices are firm, all inclusive in Canadian dollars, FOB destination. Transportation charges, customs duties and Excise taxes are included, and Applicable Taxes are extra.

1. Firm Requirement

Firm Unit Price

Supply, delivery, installation, commissioning, on-site training and on-site technical assistance of a Solid-State Induction Heating System in accordance with all the Mandatory Technical Specifications and Certifications in Annex A, Requirement.

\$ _____

Make and model number: _____