



**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 IN-LINE WATER HEATERS | |
| Solicitation No. - N° de l'invitation 23375-161357/A | Date 2016-04-21 |
| Client Reference No. - N° de référence du client 23375-161357 | |
| GETS Reference No. - N° de référence de SEAG PW-\$\$HL-603-70824 | |
| File No. - N° de dossier hl603.23375-161357 | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-06-01 | |
| Time Zone Fuseau horaire Eastern Daylight Saving Time EDT | |
| 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: Kamanayo, Gatsimbanyi | Buyer Id - Id de l'acheteur hl603 |
| Telephone No. - N° de téléphone (873) 469-3343 () | 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
11 Laurier St./11, rue Laurier
7A2, Place du Portage, Phase III
Gatineau, Québec K1A 0S5

| | |
|--|--|
| 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 |



| 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 1 HAANEL DRIVE OTTAWA ON K1A 1M1 | I - 1 | NRCan.invoice_imaging-service_dimagerie_des_f actures.RNCan@canada.ca |



| Item Article | Description | Dest. Code Dest. | Inv. Code Fact. | Qty Qté | U. of I. U. de D. | Unit Price/Prix unitaire | | Del. Offered Liv. offerte |
|-----------------|---|------------------------|-----------------------|------------|----------------------|--------------------------|------------------------|------------------------------|
| | | | | | | Destination | FOB/FAM Plant/Usine | |
| 1 | H-2601: Reactor Water Injection Heater • Details of the heater are indicated in Table 1 of Annex A. | D-1 | I-1 | 1 | Each | \$ | XXXXXXXXXXXX | See Herein |
| 2 | H-2602: Scrubber Water Injection Heater • Details of the heater are indicated in Table 2 of Annex A. | D-1 | I-1 | 1 | Each | \$ | XXXXXXXXXXXX | See Herein |
| 3 | H-2603: Quench Water Injection Heater • Details of the heater are indicated in Table 3 of Annex A. | D-1 | I-1 | 1 | Each | \$ | XXXXXXXXXXXX | See Herein |



| Item Article | Description | Dest. Code Dest. | Inv. Code Fact. | Qty Qté | U. of I. U. de D. | Destination | Unit Price/Prix unitaire FOB/FAM | Plant/Usine | Delivery Req. Livraison Req. | Del. Offered Liv. offerte |
|-----------------|--|------------------------|-----------------------|------------|----------------------|-------------|-------------------------------------|-------------|---------------------------------|------------------------------|
| 4 | H-4301: Water Wall Pre-Heat Circulation Heater <ul style="list-style-type: none"> Details of the heater are indicated in Table 4 of Annex A. | D-1 | I-1 | 1 | Each | \$ | XXXXXXXXXXXX | | See Herein | |

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PART 1 - GENERAL INFORMATION

1.1 Statement of Work – Bid

The Work to be performed is detailed under Article 6.2 of the resulting contract clauses.

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days 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 Agreement on Internal Trade (AIT).

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>) 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](#) (2016-04-04) 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 **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, Canada**.

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

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2.5 Best Delivery Date – Bid

While delivery is requested by **July 16, 2016**, the best delivery that could be offered is

_____.

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 (2 hard copies);

Section II: Financial Bid (1 hard copy);

Section III: Certifications (1 hard copy).

Prices must appear in the line item detail 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.

3.1.1 SACC Manual Clauses

The following terms and conditions are incorporated herein

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

3.1.2 Progress Payments

Progress payments will not be considered unless specifically offered by PWGSC in this document.

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

- a) The Bidders must provide documentation with their bids showing how they meet the technical requirements detailed in Annex "A";
- b) The goods and services offered conform to all aspects of the requirements detailed in this bid solicitation.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

- a) The Bidder must bid a firm unit 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;
- c) To be considered, a bid must contain an offer for all items in this solicitation

4.1.3 Evaluation of Price

The aggregate price will be calculated by adding the quoted prices in line item details.

4.2 Basis of Selection - Multiple Items

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 on an aggregate basis 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 Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

5.1.2 Additional Certifications Required with the Bid

5.1.2.1 Product Certification

The Bidder certifies that all goods proposed conform to the specifications detailed at Annex A.

Signature

Date

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 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](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

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 Additional Certifications Precedent to Contract Award

5.2.3.1 General Environmental Criteria Certification

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

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

Bidders' Authorized Representative Signature

Date

or

- B) The Bidder certifies that the Bidder meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

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

| Green Practices 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 bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program. | |
| A minimum of 50% of office equipment has an energy efficient certification. | |

Bidders' Authorized Representative Signature

Date

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 Statement of Work - Contract

The Contractor must perform the Work in accordance with the Statement of Work 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 (2016-04-04) General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

The Contractor must make the complete delivery within _____ calendar days from the effective date of the Contract.

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:

Gatsimbanyi Kamanayo, Supply Specialist

Public Works and Government Services Canada
Acquisitions Branch, Commercial & Alternate Acquisitions Management Sector
Logistics, Electrical, Fuel & Transportation Directorate
Fuel & Construction Products Division (HL)
11 Laurier Street, 7A2, Place du Portage, Phase III
Gatineau, QC K1A 0S5
Telephone: 873-469-3343 Facsimile: 819-956-5227
E-mail address: Gatsimbanyi.Kamanayo@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:

Name: _____
 Title: _____
 Organization: _____
 Address: _____
 Telephone: ____ - ____ - ____
 Facsimile: ____ - ____ - ____
 E-mail: _____

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 - Firm Price

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

6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in 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 (2016-04-04) Goods (Medium Complexity);
- (c) Annex A, Statement of Work;
- (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 |
| 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.

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6.13 Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered:

DDP Delivered Duty Paid CANMET complex located at:

1 Haanel Drive, Ottawa, ON K1A 1M1,

Incoterms 2000 for shipments from commercial contractor.

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

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ANNEX «A»

STATEMENT OF WORK

Annex A – Statement of Work for: In-Line Water Heaters**Overview:**

CanmetENERGY Ottawa is looking for a supplier for four (4) in-line process water heaters to be delivered to the Bells Corner's complex at 1 Haanel Drive, Ottawa, Ontario, K1A 1M1. The heaters must meet all design requirements and certifications stated in the tables below.

Mandatory Requirements:**Table 1: H-2601 (Reactor Water Injection Heater)**

| | | Compliant (Yes/No) |
|---|---|--------------------|
| Max Flow Rate of Water | 200 kg/h | |
| Inlet Temperature | 30 °C | |
| Maximum Outlet Temperature | 150 °C | |
| Maximum Allowable Working Pressure (MAWP) | 125 barg @ 200 °C | |
| Inlet/Outlet Process Connections | 1" ANSI B16.5 Raised Face Flange | |
| Power | 3 Phase, 600 V, 60 Hz | |
| High Limit Thermocouple on Sheath End | Type N | |
| Process Thermocouple on Outlet | Type N, Explosion Resistant | |
| Explosion Proof Terminal Box with Gasket | Class 1, Div. 2, Group B, C & D | |
| Material of Construction | 316/316L Stainless Steel | |
| Ontario CRN Required | Yes | |
| Mounting Orientation | Horizontal | |
| External Insulation Required | Yes | |
| Drain Connection | 0.5" FNPT with plug | |
| Lifting Eyelets | Heater will come with 2 lifting eyelets for moving by crane | |
| Shipping | Heater will come crated or on a skid suitable for offloading with a 5 ton capacity forklift | |
| Hazardous Area Rating | Class 1, Division 2 | |
| Maximum Heater Duty | Not to Exceed 40 kW | |

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Table 2: H-2602 (Scrubber Water Injection Heater)

| | | Compliant (Yes/No) |
|---|---|--------------------|
| Max Flow Rate of Water | 80 kg/h | |
| Inlet Temperature | 30 °C | |
| Maximum Outlet Temperature | 150 °C | |
| Maximum Allowable Working Pressure (MAWP) | 125 barg @ 200 °C | |
| Inlet/Outlet Process Connections | 1" ANSI B16.5 Raised Face Flange | |
| Power | 3 Phase, 600 V, 60 Hz | |
| High Limit Thermocouple on Sheath End | Type N | |
| Process Thermocouple on Outlet | Type N, Explosion Resistant | |
| Explosion Proof Terminal Box with Gasket | Class 1, Div. 2, Group B, C & D | |
| Material of Construction | 316/316L Stainless Steel | |
| Ontario CRN Required | Yes | |
| Mounting Orientation | Horizontal | |
| External Insulation Required | Yes | |
| Drain Connection | 0.5" FNPT with plug | |
| Lifting Eyelets | Heater will come with 2 lifting eyelets for moving by crane | |
| Shipping | Heater will come crated or on a skid suitable for offloading with a 5 ton capacity forklift | |
| Hazardous Area Rating | Class 1, Division 2 | |
| Maximum Heater Duty | Not to Exceed 24 kW | |

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Table 3: H-2603 (Quench Water Injection Heater)

| | | Compliant (Yes/No) |
|---|---|--------------------|
| Max Flow Rate of Water | 120 kg/h | |
| Inlet Temperature | 30 °C | |
| Maximum Outlet Temperature | 150 °C | |
| Maximum Allowable Working Pressure (MAWP) | 125 barg @ 200 °C | |
| Inlet/Outlet Process Connections | 1" ANSI B16.5 Raised Face Flange | |
| Power | 3 Phase, 600 V, 60 Hz | |
| High Limit Thermocouple on Sheath End | Type N | |
| Process Thermocouple on Outlet | Type N, Explosion Resistant | |
| Explosion Proof Terminal Box with Gasket | Class 1, Div. 2, Group B, C & D | |
| Material of Construction | 316/316L Stainless Steel | |
| Ontario CRN Required | Yes | |
| Mounting Orientation | Horizontal | |
| External Insulation Required | Yes | |
| Drain Connection | 0.5" FNPT with plug | |
| Lifting Eyelets | Heater will come with 2 lifting eyelets for moving by crane | |
| Shipping | Heater will come crated or on a skid suitable for offloading with a 5 ton capacity forklift | |
| Hazardous Area Rating | Class 1, Division 2 | |
| Maximum Heater Duty | Not to Exceed 15 kW | |

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Table 4: H-4301 (Water Wall Pre-Heat Circulation Heater)

| | | Compliant (Yes/No) |
|---|---|--------------------|
| Max Flow Rate of Water | 960 kg/h | |
| Total Volume of Water to be Heated | 50 L | |
| Time to Heat Water | 8 hours | |
| Water Inlet Temperature | 20 °C | |
| Maximum Outlet Temperature | 150 °C | |
| Maximum Allowable Working Pressure (MAWP) | 125 barg @ 250 °C | |
| Inlet/Outlet Process Connections | 0.5" ANSI B16.5 Raised Face Flange | |
| Power | 3 Phase, 600 V, 60 Hz | |
| High Limit Thermocouple on Sheath End | Type N | |
| Process Thermocouple on Outlet | Type N, Explosion Resistant | |
| Explosion Proof Terminal Box with Gasket | Class 1, Div. 2, Group B, C & D | |
| Material of Construction | 316/316L Stainless Steel | |
| Ontario CRN Required | Yes | |
| Mounting Orientation | Horizontal | |
| External Insulation Required | Yes | |
| Drain Connection | 0.5" FNPT with plug | |
| Lifting Eyelets | Heater will come with 2 lifting eyelets for moving by crane | |
| Shipping | Heater will come crated or on a skid suitable for offloading with a 5 ton capacity forklift | |
| Hazardous Area Rating | Class 1, Division 2 | |
| Maximum Heater Duty | Not to Exceed 5 kW | |

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Table 5: Additional Mandatory Requirements

| | Compliant (Yes/No) |
|---|--------------------|
| Contractor is responsible for registration of pressure vessels with TSSA and obtaining Ontario CRN. | |
| Contractor must supply proof of welder's certificates and procedures if requested by CanmetENERGY. | |
| Contractor must supply suitable support legs affixed to all four heaters. | |
| Contractor must supply electronic copies of operation and maintenance manuals for all four heaters. | |
| Contractor must clearly label high limit thermocouples leads and process thermocouple leads for all four heaters | |
| Contractor is responsible for ensuring that flanged process connections are protected during delivery and off-loading from truck. | |
| Contractor is responsible for off-loading of heaters from the delivery vehicle once goods arrive at 1 Haanel Drive, Ottawa, Ontario, K1A 1M1. CanmetENERGY Staff will take over responsibility once heaters are off-loaded from delivery vehicle. | |

Additional Notes to Bidders:

- Heaters will be installed indoors.
- Installation will be the responsibility of CanmetENERGY.
- Controllers for heaters will be supplied by CanmetENERGY.