



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

**Bid Receiving
PWGSC
33 City Centre Drive
Suite 480C
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 Autoclave | |
| Solicitation No. - N° de l'invitation 23240-180872/A | Date 2017-12-11 |
| Client Reference No. - N° de référence du client 23240-180872 | |
| GETS Reference No. - N° de référence de SEAG PW-\$TOR-215-7430 | |
| File No. - N° de dossier TOR-7-40106 (215) | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-01-22 | 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: Lopez, Maria | Buyer Id - Id de l'acheteur tor215 |
| Telephone No. - N° de téléphone (905) 615-2071 () | FAX No. - N° de FAX () - |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: | |

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

Public Works and Government Services Canada
Ontario Region
33 City Centre Drive
Suite 480
Mississauga
Ontario
L5B 2N5

| | |
|--|--|
| Delivery Required - Livraison exigée | 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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TOR215
CCC No./N° CCC - FMS No./N° VME

ANNEX "E"
ADDITIONAL CERTIFICATIONS

PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement associated with the requirement.

1.2 Requirement

The requirement is detailed under Annex "A".

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 fifteen (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 Trade Agreements

The requirement is subject to the provisions of the Canadian Free Trade Agreement (CFTA), Canada-Colombia Free Trade Agreement, Canada-Peru Free Trade Agreement (CPFTA), North American Free Trade Agreement (NAFTA) and Canada-Panama Free Trade Agreement.

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-andguidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

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

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: Sixty (60) days
Insert: Ninety (90) days

2.1.1 SACC Manual Clauses

SACC Manual clause B1000T (2014-06-26) Condition of Material

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 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.

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.

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 (3 hard copies)
Section II: Financial Bid (1 hard copies)
Section III: Certifications (1 hard copies)

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.

Technical information, photos, brochures must be submitted with your proposal at solicitation close, to clearly demonstrate your compliance with the specifications detailed within this solicitation. In the event that the published documentation does not demonstrate compliance, a written narrative demonstrating compliance will be accepted.

Section II: Financial Bid **

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

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

3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “D” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “D” 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

SACC Manual clause C3011T (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Evaluation Criteria

The mandatory technical evaluation criteria are detailed in Annex "C"

4.1.2 Financial Evaluation

Bidders must submit a completed Annex “B”, Basis of Payment, with their bid at the time of bid closing.

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP (NRCan, Hamilton, Ontario) Incoterms® 2000, Canadian customs duties and excise taxes included.

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.

4.2 Basis of Selection

4.2.1 *SACC Manual* Clause A0031T (2010-08-16) - Basis of Selection - Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-) (<http://www.tpsgc-pwgsc.gc.ca/ci->

if/politique-policy-eng.html), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

6.1 Security Requirements

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".

6.2.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A and Annex B of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the contract

6.4 Term of Contract

6.4.2 Delivery Date

All the deliverables must be received on or before March 29, 2018.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Maria T. Lopez
Supply Team Leader
Public Works and Procurement Canada
Ontario Region
Acquisitions
33 City Centre Drive, Suite 480C
Mississauga, Ontario
L5B 2N5

Telephone: 905-615-2071
Facsimile: 905-615-2060
E-mail address: Maria.Lopez@pwgsc-tpsgc.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 *(to be filled in only at contract award)*

The Project Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____ ____ _____
E-mail address: _____

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative

Name: _____

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TOR215
CCC No./N° CCC - FMS No./N° VME

Title: _____
Organization: _____
Address: _____

Telephone: _____
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, as specified in Annex "B" - Pricing Tables for a cost of \$_____ **(to be filled in only at contract award)**. Customs duties are included, excluded 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 SACC Manual Clauses

SACC Manual clause C2000C (2007-11-30) Taxes - Foreign-Based Contractor ****
SACC Manual clause H1000C (2008-05-12) Single Payment

6.6.3 Electronic Payment of Invoices – Contract *(Will be modified 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

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.
 - c) To facilitate the payment process, it is important that the Contractor quote the contract number on all the invoices, shipping bills and packing slips. Failure to do so will delay payment and the date used for calculating interest on overdue accounts.

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 Ontario.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

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

6.11 SACC Manual Clauses

SACC Manual Clause B1501C (2006-06-16) Electrical Equipment
SACC Manual Clause G1005C (2016-01-28) Insurance – No Specific Requirement

6.12 Shipping Instructions

6.12.1 Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered: Delivered Duty Paid (DDP) (NRCan, Hamilton, Ontario), Ontario Incoterms 2000 for shipments from a commercial contractor.
2. The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.

ANNEX "A"

REQUIREMENT

Natural Resources Canada has a requirement for the supply and delivery for a high temperature high pressure autoclave for corrosion testing under supercritical water and supercritical carbon dioxide conditions. Required delivery date is March 29th, 2018.

Specifications

Pressure vessel with inlet/outlet fittings, pressure gauge, thermocouple, heater and temperature controller. Vessel must have a valid CRN, and all electrical components must have valid CSA certification.

1 Equipment Certifications

- 1.1 The equipment must be CSA, ESA or ULC approved with visible markings. The bid price shall include any modifications necessary to ensure compliance with the Canadian electrical code.
- 1.2 The equipment must comply with CSA B51: Boiler, Pressure Vessel and Pressure Piping Code and possess a valid CRN for the Province of Ontario.

2 Design

- 2.2 The equipment must be new. No prototypes, demonstration models, used or refurbished equipment will be considered.
- 2.3 The autoclave vessel must be constructed of Inconel 625 or another nickel-based alloy with equivalent or better corrosion resistance. Fittings must be constructed of the same alloy or an alloy with equivalent or better corrosion-resistance, such as Inconel 625 or Hastelloy C276.
- 2.4 A support stand must be included.
- 2.5 The autoclave heater must be well insulated. Detailed description is required. *No asbestos or asbestos products can be used in the manufacture of the heating equipment.*
- 2.6 Minimum interior volume: 1 litre.
- 2.7 Minimum interior diameter: 6.35 cm (2.5 inches).
- 2.8 Minimum maximum operating temperature: 650C.
- 2.9 Minimum MAWP at max operating temperature: 340 bar
- 2.10 Fittings: At least: one manual gas inlet valve, one manual gas outlet valve, one pressure gauge with sufficient range to display at least 1.2x the MAWP, one thermowell (same material as vessel) with thermocouple, one pressure relief device (rupture disk).

Optional: digital pressure transducer with at least 1.2x MAWP range connected to display on main controller

Heater controller: Maintain temperature +/- 5C or less.

Optional: Over temperature thermocouple

- 2.11 Support Stand Casters (if applicable): Two (2) swivel and two (2) straight casters. The casters must allow for the autoclave assembly to be moved manually over a smooth surface and have locking wheels that can be engaged while the autoclave is in place.
- 2.12 Head gasket: The head gasket must permit sealing of the vessel and maintenance of the MAWP at the maximum operating pressure for an extended period of continuous operation (at least 30 days).
- 2.13 Electrical Cord & Plug: At least a 4' electrical cord that can be plugged into a power source. Vendor to supply any transformers, power conditioning or other components required to adapt to the available utilities.
- 2.14 Power: 110 VAC or 208 VAC, single phase, 60 Hz

3 Controls

- 3.2 PID temperature control with single set point and program modes. Includes overshoot protection, and auto tune.
- 3.3 ISO accredited calibration, traceable back to a national reference standard.

4 Documentation

- 4.2 Installation and operating manuals for the entire system – hard copy, electronic pdf or MS Word format, in English.
- 4.3 Electrical and mechanical schematic diagrams.
- 4.4 Power and service requirements.

5 Vendor Performance

- 5.2 Response to a repair call within 72 hours.
- 5.3 Spare parts availability for 10 years from commissioning date.
- 5.4 Warranty, 1 year parts & labour included in firm lot price.

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ANNEX "B"

BASIS OF PAYMENT

Prices are firm, all-inclusive in Canadian dollars. Delivery charges, and Customs duties are included. Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

| <u>Requirement</u> | <u>Qty.</u> | <u>Firm Price</u> |
|---|-------------|-------------------|
| 1. Autoclave in accordance with Annex A – Requirement. Make _____ Model No. _____ Delivered Duty Paid (DDP) (NRCan, Hamilton, Ontario), Ontario Incoterms 2000 | 1 each. | \$ _____ |

Delivery required by March 29, 2017.

Optional Requirements

These items will not be included in the evaluation and will not be considered as an evaluation criterion
NOTE: *Canada may purchase any or all of the optional requirements at any time during the period of the contract. Upon issuance of the Contract, wording that is italicized will be deleted from Annex B.*

| <u>Requirement</u> | <u>Qty.</u> | <u>Firm Price</u> |
|---|-------------|-------------------|
| 1. Fittings: Digital pressure transducer with at least 1.2x MAWP range connected to display on main controller. | 1 each | \$ _____ |
| 2. Heater controller: Over temperature thermocouple | 1 each | \$ _____ |

ANNEX "C"
Technical Evaluation Criteria

| Req. No. | Requirement | Meets Req't (Y/N) | Validation Provide section and page number |
|-----------|---|-------------------|--|
| A1 | EQUIPMENT CERTIFICATIONS | | |
| A1-1 | Electrical certifications: The equipment must be CSA, ESA or ULC approved with visible markings. The bid price shall include any modifications necessary to ensure compliance with the Canadian electrical code. | | |
| A1-2 | Certified pressure vessel/fitting: The equipment must comply with CSA B51: Boiler, Pressure Vessel and Pressure Piping Code and possess a valid CRN for the Province of Ontario. | | |
| A2 | DESIGN BASIS | | |
| A2-1 | The equipment must be new. No prototypes, demonstration models, used or refurbished equipment will be considered. | | |
| A2-2 | Materials of construction: The autoclave vessel must be constructed of Inconel 625 or another nickel-based alloy with equivalent or better corrosion resistance. Fittings must be constructed of the same alloy or an alloy with equivalent or better corrosion-resistance, such as Inconel 625 or Hastelloy C276. | | |
| A2-3 | Support stand: A support stand must be included. | | |
| A2-4 | Insulated heater – The autoclave heater must be well insulated. Detailed description is required. No asbestos or asbestos products can be used in the manufacture of the heating equipment. | | |
| A3 | EQUIPMENT PERFORMANCE | | |
| A3-1 | Minimum interior volume: 1 litre | | |
| A3-2 | Minimum interior diameter: 6.35 cm (2.5 inches) | | |
| A3-3 | Minimum maximum operating temperature: 650C | | |
| A3-4 | Minimum MAWP at max operating temperature: 340 bar | | |
| A3-5 | Fittings: At least: one manual gas inlet valve, one manual gas outlet valve, one pressure gauge with sufficient range to display at least 1.2x the MAWP, one thermowell (same material as vessel) with thermocouple, one pressure relief device (rupture disk). | | |
| A3-6 | Heater controller: Maintain temperature +/- 5C or less. | | |
| A3-7 | Support Stand Casters (if applicable): Two (2) swivel and two (2) straight casters. The casters must allow for the autoclave assembly to be moved manually over a smooth surface and have locking wheels that can be engaged while the autoclave is in place. | | |
| A3-8 | Head gasket: The head gasket must permit sealing of the vessel and maintenance of the MAWP at the maximum operating pressure for an extended period of continuous operation (at least 30 days). The principle of design for the gasket must be provided in the bid package. | | |
| A3-9 | Electrical Cord & Plug: At least a 4' electrical cord that can be plugged into a power source. Vendor to supply any transformers, | | |

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| Req. No. | Requirement | Meets Req't (Y/N) | Validation Provide section and page number |
|-----------|---|-------------------|--|
| | power conditioning or other components required to adapt to the available utilities. Power: 110 VAC or 208 VAC, single phase, 60 Hz | | |
| A4 | <u>CONTROLS</u> | | |
| A4-1 | PID temperature control with single setpoint and program modes. Overshoot protection. Auto tune. | | |
| A4-2 | ISO accredited calibration, traceable back to a national reference standard. | | |
| A5 | <u>DOCUMENTATION</u> | | |
| A5-1 | Installation and operating manuals for the entire system – hard copy, electronic pdf or MS Word format, in English | | |
| A5-2 | Electrical and mechanical schematic diagrams | | |
| A5-3 | Power and service requirements | | |
| A6 | <u>VENDOR PERFORMANCE</u> | | |
| A6-1 | Response to a repair call within 72 hours. | | |
| A6-2 | Spare parts availability for 10 years from commissioning date. | | |
| A6-3 | Warranty, 1 year parts & labour included in firm lot price. | | |

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ANNEX "D"

ELECTRONIC PAYMENT INSTRUMENTS

As indicated in Part 3, clause 3.1.2, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.

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)

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ANNEX "E"

ADDITIONAL CERTIFICATIONS

1. Board of Directors

In accordance with Section 1, Integrity Provisions – Bidder, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name - _____

2. Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Offerors are required to have a Procurement Business Number (PBN) before Contract award.

Procurement Business Number - _____

Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.