

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
**Room 100,
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6
Bid Fax: (204) 983-0338**

**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 Rotary Retort, Sterilizer	
Solicitation No. - N° de l'invitation 01586-150147/A	Date 2015-09-22
Client Reference No. - N° de référence du client 01586-150147	
GETS Reference No. - N° de référence de SEAG PW-\$WPG-080-9595	
File No. - N° de dossier WPG-5-38104 (080)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-11-02	
Time Zone Fuseau horaire Central Daylight Saving Time CDT	
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: Almonte, Cathleen	Buyer Id - Id de l'acheteur wpg080
Telephone No. - N° de téléphone (204) 229-3862 ()	FAX No. - N° de FAX (204) 983-7796
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF AGRICULTURE AND AGRI-FOOD 5403-1 AVE S. P.O.BOX 3000 MAIN LETHBRIDGE Alberta T1J4B1 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

Public Works and Government Services Canada - Western
Region
Room 100
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6

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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ROTARY RETORT

PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement 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 World Trade Organization Agreement on Government Procurement (WTO-AGP), 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 (2015-07-03) 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: 120 days

2.1.1 SACC Manual Clauses

B3000T (2006-06-16), Equivalent Products
B1000T (2014-06-26) Condition of Material – Bid

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 seven (7) 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 Alberta.

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 (2 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.

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 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications 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

Mandatory technical evaluation criteria are included in **Annex A**.

4.1.2 Financial Evaluation

SACC Manual Clause [A0222T](#) (2014-06-26), Evaluation of Price – Canadian / Foreign Bidders

4.2 Basis of Selection

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. 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 Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed [Declaration Form](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-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 – List of Names

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

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](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 [Employment and Social Development Canada \(ESDC\) - 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](#)" list at the time of contract award.

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PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Requirement

The Contractor must provide a rotary retort in accordance with the requirement at **Annex A**.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<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 (2015-09-03), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance
4002 (2010-08-16), Software Development or Modification Services
4003 (2010-08-16), Licensed Software
4004 (2013-04-25), Maintenance and Support Services for Licensed Software

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 award to 30 September 2016.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Cathleen Almonte, *B. Comm. (Hons.)*
Supply Specialist
Public Works and Government Services Canada
Western Region
Acquisitions Section
Suite 100-167 Lombard Avenue
Winnipeg, MB R3B 0T6

Telephone: (204) 984-6664 or (204) 229-3862

Facsimile: (204) 983-7796

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E-mail address: cathleen.almonte@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

The Project Authority for the Contract is: TBD

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: _____
Title: _____
Telephone: _____
Facsimile: _____
E-mail: _____

6.6 Payment

6.6.1 Basis of Payment – 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 lot price(s), as specified in **Annex B** for a cost of **\$ TBD**. 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 Limitation of Price

SACC Manual clause [C6000C](#) (2011-05-16) Limitation of Price

6.6.3 Multiple Payment

SACC Manual clause H1001C (2008-05-12), Multiple Payment

6.6.4 SACC Manual Clauses

C2000C (2007-11-30), Taxes – Foreign-based Contractor
A9117C (2007-11-30), T1204 – Direct Request by Customer Department
D5328C (2007-11-30), Inspection and Acceptance

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.

Each invoice must be supported by:

1. a copy of the release document and any other documents as specified in the Contract;
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.**

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, 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.

6.9 Applicable Laws

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

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 supplemental general conditions 4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
- (c) the supplemental general conditions 4002 (2010-08-16), Software Development or Modification Services;
- (d) the supplemental general conditions 4003 (2010-08-16), Licensed Software;
- (e) the supplemental general conditions 4004 (2013-04-25), Maintenance and Support Services for Licensed Software;
- (f) the general conditions 2010A (2015-09-03), General Conditions – Goods (Medium Complexity);
- (g) Annex A, Requirement;
- (h) Annex B, Basis of Payment; and
- (i) the Contractor's bid dated _____.

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6.11 SACC Manual Clauses

B1501C (2006-06-16) Electrical Equipment
B7500C (2006-06-16) Excess Goods
B1006C (2014-06-26) Condition of Material - Contract
G1005C (2008-05-16) Insurance

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ANNEX A

Requirement

Reference attached PDF titled, "Annex A"

ANNEX B

BASIS OF PAYMENT

It is **MANDATORY** that Bidders submit firm prices/rates for the period of the proposed Contract for all items listed hereafter. **This section, when completed, will be considered as the Bidder's financial proposal.**

Bidders shall provide bids as per unit of issue requested. It is the responsibility of the bidder to provide conversion to the unit of issue requested. Failure to do so will render the bid non-responsive without further consideration.

Should there be an error in the extended pricing of the Bidder's proposal, the unit pricing shall prevail and the extended pricing shall be corrected in the evaluation. Any errors in the quantities of the Bidder's proposal shall be changed to reflect the quantities stated in the RFP.

Rates quoted must remain firm for the period of the Contract. Rates MUST include ALL costs associated with providing the goods and/or services in accordance with the Requirement, Annex A attached herein. GST, if applicable, is to be shown as a separate item on any resulting invoice.

Bidders must indicate the currency of their submission. 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 will be applied as a conversion factor to the bids submitted in foreign currency.

Payment will be made in accordance with the following pricing.

PRICING SCHEDULE:

Firm Unit Pricing, F.O.B. Destination, GST extra (if applicable)				
Item	Description	Qty	Unit of Issue	Unit Price
1	Firm all inclusive rate for the supply, transportation and delivery of a Rotary Retort as described in Annex A herein, with a mandatory delivery on or before March 31, 2016. Delivery of Rotary Retort to: Agriculture and Agri-Food Canada Research Centre 5403-1 Avenue South Lethbridge, Alberta T1J 4B1	1	lot	\$

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	Breakdown of Rate: Transportation / Delivery Charges: \$ _____ Supply of a Rotary Retort: \$ _____			
2	Installation and Training Installation and Training to include all material, supplies, equipment, training and commissioning necessary to install the rotary retort. Desired completion on or before March 31, 2016 or July 29, 2016, with mandatory completion on or before September 30, 2016.	1	Lot	\$
	Total Evaluated Price:			\$

SPECIFICATIONS

STATUS: M = Mandatory Criteria; To be considered responsive, a bid must meet all of the mandatory criteria at BID CLOSING . Bidders must demonstrate their ability to meet those requirements. The proposals will be evaluated on the basis of the following criteria, therefore, Bidders are advised to address each area in sufficient depth to show compliance. Proposals which do not give sufficient information will be considered to be non-responsive. Failure by Bidders to meet the mandatory requirements will render the Bidder's proposal non-responsive and will be given no further consideration in the evaluation process. O = Optional Criteria; I = Information only; Bidders must meet these requirements /specifications , but it is not mandatory for Bidder's to demonstrate their ability to meet these requirements at bid closing. D = Desirable Criteria			
<u>What's Expected in Bidder's Proposal for all items with "M" Status:</u> Technical information, photos, and/or brochures must be submitted with the Bidder's proposal at solicitation close, to clearly demonstrate Bidder's 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. <u>Bidder's Cross Reference and/or Response (SIR):</u> In this column, Bidder is to cross-reference where this technical specification is indicated in their brochure, technical data sheet. If applicable, Bidder is to indicate how they meet the specifications addressed below, by recording this information in this column.			
Item	Description	Status	Bidder's Cross Reference and/or Response (SUPPLEMENTAL INFORMATION REFERENCE)
1	Agriculture and Agri-Food Canada (AAFC) has a requirement for the supply, delivery and installation of a rotary retort for Agriculture and Agri-Food Canada, Lethbridge, Alberta with the		

	<p>following completion dates:</p> <p>1. Mandatory supply and delivery of the retort on or before March 31, 2016.</p> <p>2. Completion of the installation, commissioning and training as per the following dates: (<u>bidder to indicate completion date</u>)</p> <p><input type="checkbox"/> completion on or before March 31, 2016, or</p> <p><input type="checkbox"/> completion on or before July 29, 2016, or</p> <p><input type="checkbox"/> completion on or before Sept. 30, 2016</p> <p>The work will consist of the supply of all material, supplies, equipment, training and commissioning necessary to install the rotary retort.</p>	M	
1.1	Existing Technology:		
1.1.1	The rotary retort being offered must be the most recent model available and must be comparable to bidders' models (produced by the same bidder) in the market place.	I	
1.2	Electrical Certification:		
1.2.1	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 certified organization accredited by the Standards Council of Canada. Proof of certification must be given to the Technical Authority before delivery.	I	
1.3	Quality Standards:		
1.3.1	Manufacturer to ensure a Nationally Recognized quality program such as ISO9001, is used in the order, design and manufacturing processes. Proof of quality program must be provided upon request.	I	

1.4	Warranty:		
1.4.1	Manufacturer to ensure equipment and labour is warranted for a minimum of 24 months from date of installation. Proof and details of warranty must be provided.	M	
1.5	Utility Connections:		
1.5.1	The unit will have all utility connections labelled appropriately.	I	
1.6	Existing Site Conditions:		
1.6.1	One single doorway 45" wide and 82" high. (Laboratory door)	I	
1.6.2	One double doorway 69" wide and 82" high. (Hallway doors)	I	
1.6.3	Due to the restriction of room available, the retort must not be more than 92" due to width of hallway.	I	
2	LOCAL CONTROL SYSTEM		
2.1	Programming:		
2.1.1	The software must handle the retort processing functions systematically.	M	
2.1.2	The software must be HMI software and provide for visual display of control parameters, input of operator entries, and display of records or logs that are created during the operation.	M	
2.1.3	The software must have PC-based HMI that allows easy control and data storage in the same Windows based desktop. If a network connection is provided, it must allow the supplier access to the system quickly to correct any control issue.	M	
2.1.4	The software must have controls that can be validated to meet or exceed the requirements of 21 Code of Federal Regulations (CFR) Part 11. They must control input and output modules digitally or analog. The International Electrotechnical Commission (IEC) parts must follow industry and Underwriters Laboratories (UL) standards	M	

2.1.5	The software must ensure that programs can be entered via the controller high resolution colour LCD touch screen or via desktop computer running commercial available software.	M	
2.1.6	The software must acquire data and manage reporting. The standard reports would include retort operator records, trending of temperature and pressure signals.	M	
2.1.7	The control system is of industrial grade.	I	
2.2	Data logging and graphing:		
2.2.1	The system must contain field devices that are RTD's (resistance temperature detectors), pressure transmitters, level indicators, limit switches and a chart recorder.	M	
2.2.2	Stored data must be transferable to a desktop computer via a portable storage device or the network.	M	
2.2.3	Graphing program allows you to view historical data in graph form or compare actual performance to programmed performance.	M	
2.3	Alarms:		
2.3.1	The system must be able to detect unsafe conditions and be able to warn and/or shutdown operation.	M	
2.3.2	Alarm set points must be programmable on a per experiment basis and what action is to be taken when an alarm is activated must also be programmable.	M	
2.4	Security:		
2.4.1	Multiple password-protected levels must be provided for users, administrators, technicians, and manufacturer's service personnel.	M	
2.5	Trouble Shooting:		
2.5.1	Unit must provide a provision for an on screen help manual for programming.	M	

2.5.2	On board diagnostics screen must allow for service personnel to view all inputs and outputs.	M	
2.6	Communications:		
2.6.1	Controller must be shipped communications-ready for hookup to a local area network.	M	
3	Construction (note: all dimensions "maximum")		
3.1	Retort Construction The construction must be a process vessel of single, 304L stainless steel and be jacketed. The process vessel must be certified according to American Society of Mechanical Engineers (ASME) Section 8, U stamped and National Board (NB) registered. It must be able to accommodate pressures from full vacuum to 90 psi. The insulation on the vessel must provide full coverage and be chloride free.	M	
3.2	Doors: The door must be a quick opening door of single piece construction from 304L stainless steel and be jacketed. The door must close by three ring locking and be automatic with overhead actuating.	M	
3.3	Control Panel: The control panels must be Association of Electrical Equipment and Medical Imaging Manufacturers (NEMA) 4 and are custom mounted.	M	
3.4	Anchoring: Unit must have provision to be secured to floor using concrete anchors.	M	
3.5	Verified Product:		
3.5.1	Units must be factory assembled, tested and fully crated prior to shipment.	M	
4	Retort Operation		
4.1	The retort must be able to thermal process using an axial rotary motion (sterilimatic simulation). The rate of motion must be adjustable down to zero to be able to simulate static processing.	M	

4.2	The capacity of the retort must accommodate at least 24 cans of fourteen fluid ounces (398 ml) that can be processed per time.	M	
4.3	The process must be able to use saturated steam.	M	
4.4	The retort must have heating by standard direct steam injection.	M	
4.5	The retort must have cooling by heat exchanger cooling.	M	
4.6	The retort must use ¼" pneumatic lines for pressure and temperature control valves (true PID control).	M	
4.7	The retort must have all discrete and analog valves actuated automatically	M	
5	Utility Requirements:		
5.1	Chambers must be designed for the following Electrical Service: 60Hz: 120/480 - 3phase - 4 wire plus ground.	M	
6	Drain:		
6.1	Drain must be plumbed to outside footprint of cabinet.	M	
7	Manuels:		
7.1	The following documentation must be provided: operator manuals, as-built system documentation, complete hardware and customer support information and program description, Piping and Instrumentation Diagram (P & ID drawings), general arrangement drawings, complete electrical drawing including wiring and Programmable Logic Controller (PLC), and customer parts list with recommended spares, operator manuals – hard copy or on-line user manuals.	M	
8	Allowable footprint:		
8.1	The exterior dimensions must be within 92"L X 45"W X 82"H to fit in designated area	M	