



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
Government of Canada Building
101 - 22nd Street East
Suite 110
Saskatoon
Saskatchewan
S7K 0E1
Bid Fax: (306) 975-5397

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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/Réception des soumissions Travaux publics et
Services gouvernementaux Canada
Government of Canada Building
101 - 22nd Street East
Suite 110
Saskatoon
Saskatchewan
S7K 0E1

Title - Sujet Autoclave	
Solicitation No. - N° de l'invitation 01581-180721/A	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client 01581-180721	Date 2018-02-19
GETS Reference No. - N° de référence de SEAG PW-\$STN-203-5039	
File No. - N° de dossier STN-7-40036 (203)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-03-06	
Time Zone Fuseau horaire Central Standard Time CST	
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: McDonald, Shannon M.	Buyer Id - Id de l'acheteur stn203
Telephone No. - N° de téléphone (306) 251-2684 ()	FAX No. - N° de FAX (306) 975-5397
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

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

This amendment is for solicitation 01581-180721/A.

Question 1: Annex D, item 2 - Temperature range must be between 100°C to 132°C ± 2°C

Will the Government accept 104C – 135C? at ±0. 2°C

Answer 1: This temperature range is acceptable. Mandatory Spec 2 will be amended.

Question 2: Annex D, item 6 - and the cart must be capable of supporting minimum of 600 lbs (272.16 kg).

Will the Government accept a cart capable of supporting minimum of 500 lbs? (Supplier) shelves are capable of supporting minimum of 175 lbs. When loading carts that weigh 600 lbs (Supplier) considers this a health and safety risk so we cap our load recommendation at 500 lbs per cart. The total for the sterilizer load is 1,000 lbs.

Answer 2: Replacing 500 lbs as a specification in all places where 600 lbs is at present is acceptable. Mandatory Spec 6 will be amended.

Question 3: Annex D, item 6 - If chamber is more than 4 feet (1219 mm) deep, provide 2 carts (or 1 cart with 2 carriages).

Supplier will be providing two carts capable of 500 lbs each for a total load capacity of 1,000 lbs per load. If a supplier provides 1 cart with 2 carriages does the Government consider this load to be 600 lbs or 1,200 lbs? At either load capacity does the Government consider this weight load safe for operators to maneuver?

Answer 3: Acceptable, as above. Mandatory Spec 6 will be amended.

Question 4: Annex D, item 10 - Pressure vessel door must be either horizontal sliding or left hand hinged.

Based on the solicitation scoring system the sliding door generates a higher score. (Supplier) is proposing a swing door as this configuration requires reduced installation/floor space and at a minimum should be considered equal. Will a hinged door be considered equal in the proposed scoring system?

Answer 4: A sliding door is preferred and saves space in front of the unit based on the area through which the hinged door must swing. Equal points will not be awarded.

Question 5: Annex D, item 24.1 - Electrical Steam Generation: KW/100 litre capacity of pressure vessel chamber. KW / 100 l must be less than 7 KW / 100 l. This appears to be a calculation used when comparing domestic hot water heaters that do not create steam.

Would the Government please verify 7 Kw/ 100 Litres as the mandatory requirement or provide more clarity/direction on this calculation?

Answer 5: For Annex D 25.1- Electrical Steam Generation - This calculation was not based on a domestic hot water system. In order to provide an increased number of suppliers for this unit this specification has been relaxed to 12 KW / 100 litres. Mandatory Spec 25.1 will be amended.

Question 6: Annex D, item 24.1 - Electrical Steam Generation: KW/100 litre capacity of pressure vessel chamber. KW / 100 l must be less than 7 KW / 100 l.

Based on a typical electrical steam generator of the size required it would be 9.7 KW/ 100L. Is 9.7 KW/100L acceptable?

Answer 6: For Annex D Item 25.1 – Electrical Steam Generation: Based on the relaxed specification, yes, this would be acceptable. Mandatory Spec 25.1 will be amended.

Question 7: Horizontal viewing angle > 90q < 110q = 1 point;
> 110q < 140q = 2 points
> 140q = 3 points
(As per Mandatory Spec 24.2)

Mandatory Spec 24.2
Digital Display:
Minimum viewing angle of 90 degree (45 degrees off-centre)

Mandatory spec 24.2 references “90 degree (45 degrees off-centre)” as the requirement. It seems that the Annex E item 6 further expands the requirement of Mandatory Spec 24.2 with an additional specification that is designed as an elimination specification based on a viewing angle spec that has zero impact on the operation and efficacy of the product process cycles required. Annex E has more than one item where additional points are awarded based on the printer/display in order to eliminate other very qualified suppliers.

Will the Government accept the Minimum viewing angle of 90 degree (45 degrees off-centre) as required in Mandatory Spec 24.2 as an equal to the additional specs added in Annex E Item 6 with equal points weighting for meeting the mandatory specification?

Answer 7: “Annex D – Minimum Mandatory Performance Specifications” contains the Minimum Mandatory Performance Specs that must be met to be deemed compliant. “Annex E – Technical Point Rating Evaluating Matrix” contains the Point Rated Technical Criteria based on the Minimum Mandatory Performance Specs listed in Annex D.

As stated in Part 4 Evaluation Procedures and Basis of Selection, a bid must first meet the mandatory criteria listed in Annex D. If a bidder meets this criteria, they will then be evaluated against the Annex E Technical Point Rating Evaluating Matrix, based on the formula provided in both Part 4.2.1 Basis of Selection – Highest Combined Rating of Technical Merit and Price and Annex E.

We will not be amending the formula.

Question 8: Screen brightness > 250 nits < 400 nits = 1 point
Screen brightness > 400 nits < 700 nits = 2 points
Screen brightness > 700 nits = 3points
(As per Mandatory Spec 24.3)

Mandatory Spec 24.3
Digital Display:
Minimum brightness: 250 nits

Mandatory spec 24.3 references "Minimum brightness: 250 nits" as the requirement. It seems that the Annex E item 6 further expands the requirement of Mandatory Spec 24.3 with an additional specification that is designed as an elimination specification based on screen brightness spec that has zero impact on the operation and efficacy of the product process cycles required. Annex E has more than one item where additional points are awarded based on the printer/display in order to eliminate other very qualified suppliers.

Will the Government accept the "Minimum brightness: 250 nits" as required in Mandatory Spec 24.2 as an equal to the additional specs added in Annex E Item 6 with equal points weighting for meeting the mandatory specification?

Question 8: "Annex D – Minimum Mandatory Performance Specifications" contains the Minimum Mandatory Performance Specs that must be met to be deemed compliant. "Annex E – Technical Point Rating Evaluating Matrix" contains the Point Rated Technical Criteria based on the Minimum Mandatory Performance Specs listed in Annex D.

As stated in Part 4 Evaluation Procedures and Basis of Selection, a bid must first meet the mandatory criteria listed in Annex D. If a bidder meets this criteria, they will then be evaluated against the Annex E Technical Point Rating Evaluating Matrix, based on the formula provided in both Part 4.2.1 Basis of Selection – Highest Combined Rating of Technical Merit and Price and Annex E.

We will not be amending the formula.

Question 9: Mandatory Spec 25.1
Electrical Steam Generation: KW/100 litre capacity of pressure vessel chamber

KW / 100 l must be less than 7 KW / 100 l

Based on the Government's response in Addendum #3:

As a requirement of this RFP bidders are to notify the Government of any performance concerns. Geting contact a third party engineer to review the specification. The 7kW/100 liters requirement would mean that a 135kW unit would require 510 gallons of water. This requirement is typically used in the design of larger whole building systems. We do not believe this is a viable system due to the physical size of the steam generator required to meet the spec.

The requirement of this specification will negatively impact the cycle performance of the equipment. Based on the ability of an electric steam generator to provide the minimum required steam volume and continuous pressure required to process goods in a timely manner the "KW / 100 l must be less than 7 KW / 100 l" will cause total cycle process times which are longer than the normal times seen in the sterilization industry. This requirement does not reduce the overall operating cost of the steam generator.

Regardless of this spec it will still take the same energy to produce the volume of steam required to successfully run a complete cycle. Ultimately unit performance and customer satisfaction will be negatively impacted.

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Will the Government accept an electric steam generator typically specified by the manufacturer for this type of installation or would the government consider sourcing their own steam generator for this project?

Answer 9: Mandatory Spec 25.1 will be amended to accept 12 KW / 100 litres.

Bid closing date has been amended from February 26, 2018 to March 6, 2018.

Delete: "Annex A – Requirement" in it entirely

Insert: The attached revised "Annex A – Requirement"

Delete: "Annex D – Minimum Mandatory Performance Specifications" in its entirety

Insert: The attached revised "Annex D – Minimum Mandatory Performance Specifications"

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME.

ANNEX "A" - REQUIREMENT

Agriculture and Agri-Food Canada requires the supply, delivery and installation of one (1) Autoclave to the Swift Current Research and Development Centre in Swift Current, Saskatchewan.

Product must meet or exceed the following specifications:

1	Gravity steam sterilizer for dry and liquid laboratory and greenhouse materials. This unit is not for medical use.	Mandatory
2	Temperature range must be between 100°C to 135°C \pm 2°C	Mandatory
3	Sterilizer must be floor mounted. Entrance level cannot be greater than 12" (305 mm) above the floor. Should the entryway be above floor level, accompanying lift equipment to raise cart to entrance level must be included.	Mandatory
4	The autoclave including steam generator and piping, etc. must fit in space that is 12 feet (3658 mm) WIDE x 8 feet (2438 mm) HIGH x 8 feet 6 inches (2591 mm) DEEP with adequate space on all sides for required servicing if needed. The front of the autoclave will have distance of 12 feet (3658 mm) for loading and unloading carts.	Mandatory
5.	Steam for autoclave must be supplied by a Carbon Steel steam generator capable of meeting temperature and pressure and time specifications for all the autoclave programs. The steam generator must state the area it requires beside the autoclave, plus service access area (diagram spec preferred), plus kw capacity. Please state water quality, temperature and water pressure requirements. We do not require clean steam for our purposes.	Mandatory
6.	Autoclave must come with appropriate stainless steel cart(s), with stainless steel shelves and stainless steel containers for loading soil and plant material that maximizes space in the pressure chamber. If chamber is more than 4 feet (1219 mm) deep, provide 2 carts (or 1 cart with 2 carriages). The shelves must be capable of supporting minimum of 100 lbs (45.36 kg) and the cart must be capable of supporting minimum of 500 lbs. (226.80 kg).	Mandatory
7.	Pressure vessel chamber must range between 1800 and 2800 liters. This must be useable space (ie. square or rectangular area that carriage fits into).	Mandatory
8.	Pressure vessel (inner and outer shell or jacket) and door must be manufactured of stainless steel minimum with a minimum 15 year warranty.	Mandatory
9.	Exterior jacket must be thermally insulated.	Mandatory
10.	Pressure vessel door must be either horizontal sliding or left hand hinged.	Mandatory
11.1	Pressure vessel safety features must include: Lock-out switch to prevent starting a cycle if door is not closed and locked;	Mandatory
11.2	Pressure vessel safety features must include: Mechanical steam pressure lock to prevent an operator from opening door if pressure exists in chamber;	Mandatory
11.3	Pressure vessel safety features must include: Non-electrical visual chamber pressure gauge and temperature gauge as back-up to control display read out.	Mandatory

12.	Must have microprocessor controlled system for research laboratory with gravity and liquid cycles preprogrammed and with operator adjustable exposure time, temperature and liquid cool down rate.	Mandatory
13.	Must have control system shielded to prevent exposure of electronics to steam and heat.	Mandatory
14.	Must have method of supervisory access to prevent cycle tampering via a security access code that allows individuals who have received proper training to use the equipment.	Mandatory
15.	Must have alpha numeric data (both onscreen and USB) of cycle status and adherence to performance. Paper printout not required.	Mandatory
16.	Must have audible and visual safety alarms for abnormal cycle conditions. Alarms: steam supply failure (chamber flooding); steam table deviation (+ or – 5 psi (34.5 KPa) quality control/assurance for proper sterilization); under or over temperature (informs of dangerously inadequate or excessive sterilization conditions).	Mandatory
17.	In the event of power or microprocessor failure, chamber must return safely to atmospheric pressure and have a manual method of opening door if required.	Mandatory
18.	600 volt 3 phase and 120 volt electrical readily available. 300 amps are available on the 600 volt service and 100 amps are available on the 120 volt service. Please include any conversion costs to accommodate your autoclave.	Mandatory
19.	Must be ISO 9001 certified manufacturer and sterilizer compliance with all applicable federal and provincial manufacturing codes (ASME Boiler & Pressure Codes; UL & CSA, etc.)	Mandatory
20.	Must include installation of new autoclave, startup, and stated specification performance check.	Mandatory
21.	Must include on site operator training of a minimum of 10 staff by qualified personnel within three weeks of the unit being installed.	Mandatory
22.	Must include minimum two (2) year on-site warranty from date of acceptance of equipment covering parts, labor, travel and accommodations and all related expenses.	Mandatory
23.	Contractor must provide two copies in hardcopy (English) of the operating and maintenance manuals, plumbing and wiring diagrams.	Mandatory
Additional safety and operational cost saving features:		
24.1	Digital display: Minimum 7mm text height	Mandatory
24.2	Digital Display: Minimum viewing angle of 90 degree (45 degrees off-centre)	Mandatory
24.3	Digital Display: Minimum brightness: 250 nits	Mandatory
24.4	Unit messaging: complete messages or codes.	Mandatory
24.5	Steam purge and exhaust condensate cooling to floor drain to minimize room steam;	Mandatory
24.6	Utility startup/shutdown timer to reduce energy cost and increase equipment life.	Mandatory

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25.1	Electrical Steam Generation: KW/100 liter capacity of pressure vessel chamber KW / 100 l must be less than 12 KW / 100 l	Mandatory

Delivery to:

FOB DESTINATION:

Swift Current Research and Development Centre
#1 Airport Road, Gate 4
Swift Current, Saskatchewan

Annex "D" - MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

A complete list of the minimum mandatory performance specifications are detailed below in the "Compliance Matrix". Bidders are to clearly demonstrate compliance with each mandatory specification.

1. Bidders **must** show compliance by addressing each performance specification in the Compliance Matrix, whether the product offered "meets" or "doesn't meet".
2. Bidders are requested to indicate how they meet each performance specification by recording this information under the Performance Specification Offered column in the Compliance Matrix.
3. It is requested that supporting technical documentation, including but not limited to, specification sheets, technical brochures, photographs or illustrations be provided with the bid at solicitation close and be cross-referenced on the Compliance Matrix for each performance specification to outline where in the supporting technical documentation it demonstrates compliance. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements of the Performance Specification. If published supporting technical document is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.
4. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.
5. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.
6. Failure to meet each mandatory performance specification will result in the bid being deemed non-responsive, and be given no further consideration.

Requirement:	Manufacturer Offered:	Model number Offered#:
Autoclave		

Item #	Performance Specification	Status (M) Mandatory	Performance Specification Met? Indicate either Yes/No	Performance Specification Offered: Bidder <u>should</u> indicate how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders should cross-reference where this performance specification is indicated in their supporting documents.
1	Gravity steam sterilizer for dry and liquid laboratory and greenhouse materials. This unit is not for medical use.	Mandatory			

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2	Temperature range must be between 100°C to 135°C ± 2°C	Mandatory			
3	Sterilizer must be floor mounted. Entrance level cannot be greater than 12" (305 mm) above the floor. Should the entryway be above floor level, accompanying lift equipment to raise cart to entrance level must be included.	Mandatory			
4	The autoclave including steam generator and piping, etc. must fit in space that is 12 feet (3658 mm) WIDE x 8 feet (2438 mm) HIGH x 8 feet 6 inches (2591 mm) DEEP with adequate space on all sides for required servicing if needed. The front of the autoclave will have distance of 12 feet (3658 mm) for loading and unloading carts.	Mandatory			
5.	Steam for autoclave must be supplied by a Carbon Steel steam generator capable of meeting temperature and pressure and time specifications for all the autoclave programs. The steam generator must state the area it requires beside the autoclave, plus service access area (diagram spec preferred), plus kw capacity. Please state water quality, temperature and water pressure requirements. We do not require clean steam for our purposes.	Mandatory			
6.	Autoclave must come with appropriate stainless steel cart(s), with stainless steel shelves and stainless steel containers for loading soil and plant material that maximizes space in the pressure chamber. If chamber is more than 4 feet (1219 mm) deep, provide 2 carts (or 1 cart with 2 carriages). The shelves must be capable of supporting minimum of 100 lbs (45.36 kg) and the cart must be capable of supporting minimum of 500 lbs (226.80 kg).	Mandatory			

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7.	Pressure vessel chamber must range between 1800 and 2800 liters. This must be useable space (ie. square or rectangular area that carriage fits into).	Mandatory			
8.	Pressure vessel (inner and outer shell or jacket) and door must be manufactured of stainless steel minimum with a minimum 15 year warranty.	Mandatory			
9.	Exterior jacket must be thermally insulated.	Mandatory			
10.	Pressure vessel door must be either horizontal sliding or left hand hinged.	Mandatory			
11.1	Pressure vessel safety features must include: Lock-out switch to prevent starting a cycle if door is not closed and locked;	Mandatory			
11.2	Pressure vessel safety features must include: Mechanical steam pressure lock to prevent an operator from opening door if pressure exists in chamber;	Mandatory			
11.3	Pressure vessel safety features must include: Non-electrical visual chamber pressure gauge and temperature gauge as back-up to control display read out.	Mandatory			
12.	Must have microprocessor controlled system for research laboratory with gravity and liquid cycles preprogrammed and with operator adjustable exposure time, temperature and liquid cool down rate.	Mandatory			
13.	Must have control system shielded to prevent exposure of electronics to steam and heat.	Mandatory			
14.	Must have method of supervisory access to prevent cycle tampering via a security access code that allows individuals who have	Mandatory			

	received proper training to use the equipment.				
15.	Must have alpha numeric data (both onscreen and USB) of cycle status and adherence to performance. Paper printout not required.	Mandatory			
16.	Must have audible and visual safety alarms for abnormal cycle conditions. Alarms: steam supply failure (chamber flooding); steam table deviation (+ or – 5 psi [34.5 KPa] quality control/assurance for proper sterilization); under or over temperature (informs of dangerously inadequate or excessive sterilization conditions).	Mandatory			
17.	In the event of power or microprocessor failure, chamber must return safely to atmospheric pressure and have a manual method of opening door if required.	Mandatory			
18.	600 volt 3 phase and 120 volt electrical readily available. 300 amps are available on the 600 volt service and 100 amps are available on the 120 volt service. Please include any conversion costs to accommodate your autoclave.	Mandatory			
19.	Must be ISO 9001 certified manufacturer and sterilizer compliance with all applicable federal and provincial manufacturing codes (ASME Boiler & Pressure Codes; UL & CSA, etc.)	Mandatory			
20.	Must include installation of new autoclave, startup, and stated specification performance check.	Mandatory			
21.	Must include on site operator training of a minimum of 10 staff by qualified personnel within three weeks of the unit being installed.	Mandatory			
22.	Must include minimum two (2) year on-site warranty from date of	Mandatory			

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	acceptance of equipment covering parts, labor, travel and accommodations and all related expenses.				
23.	Contractor must provide two copies in hardcopy (English) of the operating and maintenance manuals, plumbing and wiring diagrams.	Mandatory			
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24.1	Digital display: Minimum 7mm text height	Mandatory			
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