



**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**

**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

<b>Title - Sujet</b> Colony Counter and Spiral Platter	
<b>Solicitation No. - N° de l'invitation</b> 6D059-151223/A	<b>Date</b> 2015-11-17
<b>Client Reference No. - N° de référence du client</b> 6D059-151223	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$WPG-070-9670	
<b>File No. - N° de dossier</b> WPG-5-38201 (070)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2015-12-28</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Central Standard Time CST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Barenz, Leanne	<b>Buyer Id - Id de l'acheteur</b> wpg070
<b>Telephone No. - N° de téléphone</b> (204) 229-6909 ( )	<b>FAX No. - N° de FAX</b> (204) 983-7796
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> PUBLIC HEALTH AGENCY OF CANADA 110 STONE RD GUELPH Ontario N1G3W4 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b> See Herein	<b>Delivery Offered - Livraison proposée</b>
<b>Vendor/Firm Name and Address</b> <b>Raison sociale et adresse du fournisseur/de l'entrepreneur</b>	
<b>Telephone No. - N° de téléphone</b> <b>Facsimile No. - N° de télécopieur</b>	
<b>Name and title of person authorized to sign on behalf of Vendor/Firm</b> <b>(type or print)</b> <b>Nom et titre de la personne autorisée à signer au nom du fournisseur/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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## PART 1 - GENERAL INFORMATION

### 1.1 Security Requirements

There is no security requirement applicable to this Contract.

### 1.2 Requirement

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

### 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 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 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

### 2.2 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 five (5) 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 Manitoba.

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 (1 hard copy)  
Section II: Financial Bid (1 hard copy)  
Section III: Certifications (1 hard copy)

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). 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.

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## 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

- a) Ability to perform the full scope of the work as described in Annex "A"
- b) Provision of firm pricing for all items in Annex "B"

#### 4.1.2 Financial Evaluation

SACC Manual Clause A0220T (2014-06-26), Evaluation of Price

### 4.2 Basis of Selection

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 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. 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>), 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.

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**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" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](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.

**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 this Contract.

**6.2 Requirement**

The Contractor must provide the items detailed under 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>) 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.

**6.4 Delivery Date**

All the deliverables must be received on or before \_\_\_\_TBD\_\_\_\_(insert best date offered).

**6.5 Authorities****6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Leanne Barenz  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
100-167 Lombard Ave

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Winnipeg, MB., R3C 2Z1

Telephone: 204-229-6909

Facsimile: 204-983-7796

E-mail address: leanne.barenz@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 Project Authority

The Project Authority for the Contract is:

Name: \_\_\_\_TBD\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone : \_\_\_\_ \_

Facsimile: \_\_\_\_ \_

E-mail address: \_\_\_\_\_

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

### 6.5.3 Contractor's Representative

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone : \_\_\_\_ \_

Facsimile: \_\_\_\_ \_

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 for a cost of \$ \_\_\_\_TBD\_\_\_\_. Customs duties are 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 Limitation of Price

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

### 6.6.3 Single Payment

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

## **6.7 Invoicing Instructions**

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.

The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

## **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 general conditions 2010A (2015-09-03) Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_TBD\_\_

## **6.11 SACC Manual Clauses**

*SACC Manual* clause B7500C (2006-06-16), Excess Goods

## **6.12 Insurance**

*SACC Manual* clause G1005C (2008-05-12), Insurance

## **ANNEX A**

### **REQUIREMENT**

#### **Automatic Colour Colony Counter**

##### **Purpose:**

The purchase of an automatic colour colony counter meeting the specifications described below will enhance current research into the characterization of highly pathogenic *E. coli* O157:H7 by the Public Health Agency of Canada, National Microbiology Laboratory at Lethbridge, in Lethbridge, Alberta. Specifically, the system will be used to study the effects of the deletion of various O157:H7-specific genetic elements on the survival of the pathogen in environmental matrices. Specifically, the instrument will be used in conjunction with an automated spiral plater to facilitate high throughput enumeration of bacterial colonies.

##### **System Description:**

An automatic colony counter allows the user to enumerate bacterial colonies on Petri dishes at a much faster rate (30 plates in 5 minutes) and with more precision and accuracy than manual counting, which can often be inconsistent due to the subjectivity of the worker. The use of spiral / exponential plating is an established alternative to conventional plating – allowing multiple dilutions to be plated on the same Petri dish. While spiral plates can be enumerated manually, an automatic colony counter will be able to further reduce the amount of time dedicated to counting a plate, doing so systematically using predetermined parameters and without bias. The incorporation of colour discrimination allows colonies of different colours to be counted separately e.g. on chromogenic media used to discriminate target colonies using biochemical properties. The automatic archiving of data, including plate images, allows the user to track an experiment systematically and to revisit archived data at a later date without manually taking pictures and accumulating old plates.

##### **MANDATORY SPECIFICATIONS:**

###### **A) Requirements:**

1. The system must be able to automatically enumerate colonies on Petri dishes with manual control.
2. The system must be able to analyze spiral plates generated by an automated spiral plater.
3. The system must be able to discriminate a minimum colony size of 0.1 mm.
4. The system must have the option for multiple lighting configurations; specifically top light, bottom light, top and bottom light, white background and black background.
5. The system must be able to analyze chromogenic media and discriminate colonies by colour.
6. The system must be able to analyze inhibition zones on Petri dishes. The precision of inhibition zones measured by the system must be at least 0.2mm.
7. The system must be able to count 1000 colonies per second.
8. The system must have a resolution of 1 megapixel.

9. The system must be capable of counting 30 dishes in 5 minutes.
10. The system must be capable of automatic correction of agar defects and automatic separation of confluent colonies.
11. The system must be capable of automatic optimization of contrast, luminosity and sensitivity.
12. The system must be capable of automatic adjustment of the counting area.

**B) Software and Compute Requirements: (if applicable)**

1. The system must have (1) software package for control of the instrument and data analysis.
2. The software must be able to export results in multiple formats; specifically PDF reports, JPEG, PNG, BMP and Excel.
3. The system must have USB connectivity.
4. The software must be compatible with Microsoft Windows 7.
5. The software must be capable of the automatic archiving and printing of data, including all pictures, comments and results.

**C) Additional Requirements:**

1. The instrument must come with a warranty of at least one year with optional years available.
2. All deliverables must be received no later than March 31st 2016.
3. Service must be provided by a fully-training manufacturer-employed or manufacturer-certified field service technician.

**Automated Spiral Plater**

**Purpose:**

The purchase of an automated spiral plater meeting the specifications described below will enhance current research into the characterization of highly pathogenic *E. coli* O157:H7 by the Public Health Agency of Canada, National Microbiology Laboratory at Lethbridge, in Lethbridge, Alberta. Specifically, the system will be used to study the effects of the deletion of various O157:H7-specific genetic elements on the survival of the pathogen in environmental matrices. Compared to manual plating, the automated spiral plater system, used in conjunction with an automatic colony counter, will allow for high throughput enumeration of bacterial colonies due to a 75% reduction in the time and consumables required. Automation will replace up to 4 of the dilution and plating steps, allowing for more precision in the counts due to the reduction in mixing and pipetting errors.

**System Description:**

Spiral plating is a method based on the plating of a fixed volume in the shape of a spiral with logarithmically decreasing volumes onto a conventional Petri dish. By partitioning the plated surface into sectors of known area and sample volume and counting the corresponding colonies, the concentration of the original sample can be calculated, either using manual or automatic methods. In conventional methods, dilutions of a sample are made serially and each dilution is plated on a separate Petri dish. Typically, to obtain a countable range, at least 3 dilutions must be plated – only one of which is useable

for enumeration. Spiral plating allows for these 3 dilutions to be plated onto the same plate in less than 30 seconds, thereby reducing consumable and time costs and increasing the number of samples that can be plated.

## **MANDATORY SPECIFICATIONS:**

### **A) Requirements:**

- a. The system must have a small footprint in order to fit inside of the existing biosafety cabinet, without modifications to the cabinet. Specifically, the maximum depth of the instrument must not exceed 18 inches.
- b. The system must be a standalone instrument with no need for external vacuums.
- c. The system must be able to dispense 50 uL and 100 uL of volume.
- d. The system must be able to complete one cycle, including disinfection, sample-taking and plating, in under 30 seconds.
- e. The system must have a syringe capacity of at least 1000 uL.
- f. The system must be capable of producing a counting range of 30 to 1x10<sup>7</sup> CFU per mL on one Petri dish.
- g. The system must either have cleaning autonomy (disinfection between samples with minimum user intervention) with a capacity of at least 500 cycles OR disposable consumables to minimize contamination.
- h. Containers for the deposition of waste and containers for holding disinfectants must be autoclavable.
- i. The system must support multiple deposition modes including exponential (spiral), proportional and uniform.
- j. The system must support the use of both the 90mm and the 150mm Petri dish.
- k. The system must have onboard controls and be capable of operating without the use of an external computer.

### **B) Software and Compute Requirements: (if applicable)**

- a. The system must have one (1) software package for the control of the instrument.
- b. The instrument must have USB control to enable programming, computer control and traceable data acquisitions.

### **C) Additional Requirements:**

- a. The instrument must come with a warranty of at least one year with optional years available.
- b. All deliverables must be received no later than March 31st 2016.
- c. Service must be provided by a fully-trained manufacturer-employed or manufacturer-certified field service technician.

	<b>MANDATORY TECHNICAL CRITERIA Automatic Colour Colony Counter</b>	Supplier Reference Section and Page# of Technical compliance
<b>Item Number</b>	<b>REQUIREMENTS:</b>	
1	The system must be able to automatically enumerate colonies on Petri dishes with manual control and identify counted colonies visually e.g. a symbol designating a counted colony.	
2	The system must be able to analyze spiral plates generated by an automated spiral plater.	
3	The system must be able to discriminate a minimum colony size of 0.1 mm.	
4	The system must have the option for multiple lighting configurations; specifically top light, bottom light, top and bottom light, white background and black background.	
5	The system must be able to analyze chromogenic media and discriminate colonies by colour.	
6	The system must be able to analyze inhibition zones on Petri dishes. The precision of inhibition zones measured by the system must be at least 0.2mm.	
7	The system must be able to count 1000 colonies per second.	
8	The system must have a resolution of 1 megapixel.	
9	The system must be capable of counting 30 Petri dishes in 5 minutes.	
10	The system must be capable of automatic correction of agar defects and automatic separation of confluent colonies.	
11	The system must be capable of automatic optimization of contrast, luminosity and sensitivity.	
12	The system must be capable of automatic adjustment of the counting area.	
	<b>SOFTWARE AND COMPUTER REQUIREMENTS: (if applicable)</b>	
1	The system must have (1) software package for control of the instrument and data analysis.	
2	The software must be able to export results in multiple formats; specifically PDF reports, JPEG, PNG, BMP and Excel.	
3	The system must have USB connectivity.	
4	The software must be compatible with Windows 7.	
14	The software must be capable of the automatic archiving and printing of data, including all pictures, comments and results.	

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	ADDITIONAL REQUIREMENTS:	
1	The instrument must come with a warranty of at least one year with optional years available.	
2	All deliverables must be received no later than March 31 <sup>st</sup> 2016.	
3	Service must be provided by a fully-training manufacturer-employed or manufacturer-certified field service technician.	

	<b>MANDATORY TECHNICAL CRITERIA Automated Spiral Plater</b>	Supplier Reference Section and Page# of Technical compliance
<b>Item Number</b>	<b>REQUIREMENTS:</b>	
1	The system must have a small footprint in order to fit inside of the existing biosafety cabinet, without modifications to the cabinet. Specifically, the maximum depth of the instrument must not exceed 18 inches.	
2	The system must be a standalone instrument with no need for external vacuum set-ups.	
3	The system must be able to dispense 50 uL and 100 uL of volume.	
4	The system must be able to complete one cycle, including disinfection, sample-taking and plating, in under 30 seconds.	
5	The system must have a syringe capacity of at least 1000 uL.	
6	The system must be capable of producing a counting range of 30 to $1 \times 10^7$ CFU per mL on one Petri dish.	
7	The system must either have cleaning autonomy (disinfection between samples with minimum user intervention) with a capacity of at least 500 cycles OR disposable consumables to minimize contamination.	
8	Containers for the deposition of waste and containers for holding disinfectants must be autoclavable.	
9	The system must support multiple deposition modes; specifically exponential (spiral), proportional and uniform.	
10	The system must support the use of both the 90mm and the 150mm Petri dish.	
11	The system must have onboard controls and be capable of operating without the use of an external computer.	
	<b>SOFTWARE AND COMPUTER REQUIREMENTS: (if applicable)</b>	
1	The system must have one (1) software package for the control of the instrument.	
2	The instrument must have USB control to enable programming, computer control and traceable data acquisitions.	
	<b>ADDITIONAL REQUIREMENTS:</b>	
1	The instrument must come with a warranty of at least one year with optional years available.	
2	All deliverables must be received no later than March 31 <sup>st</sup> 2016.	
3	Service must be provided by a fully-trained manufacturer-employed or manufacturer-certified field service technician.	

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**ANNEX B**

**BASIS OF PAYMENT**

Item	Description	Quantity	Price
1	<b>Colony Counter</b>  As detailed at Annex A Requirement including all installation, warranty and delivery charges	1 each	\$ _____
2	<b>Spiral Plater</b>  As detailed at Annex A Requirement including all installation, warranty and delivery charges	1 each	\$ _____
			<b>GST \$</b> _____ <b>Total \$</b> _____