

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works and Government Services Canada
Telus Plaza North/Plaza Telus Nord
10025 Jasper Ave./10025 ave. Jaspe
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

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 Genetic Analyzer	
Solicitation No. - N° de l'invitation 01580-140405/A	Date 2014-01-30
Client Reference No. - N° de référence du client AAFC	
GETS Reference No. - N° de référence de SEAG PW-\$EDM-607-10114	
File No. - N° de dossier EDM-3-36282 (607)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-03-12	Time Zone Fuseau horaire Mountain Daylight Saving Time MDT
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: Jenkinson, Lorraine	Buyer Id - Id de l'acheteur edm607
Telephone No. - N° de téléphone (780) 497-3593 ()	FAX No. - N° de FAX (780) 497-3510
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF AGRICULTURE AND AGRI-FOOD Canadian Animal Genetic Resources 6071-51 Campus Drive SASKATOON Saskatchewan S7N 5A8 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
Telus Plaza North/Plaza Telus Nord
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

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

TITLE: GENETIC ANALYZER

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with this bid solicitation.

2. Requirement

The requirement is detailed under Article 2 of the resulting contract clauses.

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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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 (2013-06-01), Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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.

Bids transmitted by facsimile to PWGSC will be accepted.

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 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.

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

1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy or 1 fax copy)
 Section II: Financial Bid (1 hard copy or 1 fax copy)
 Section III: Certifications (1 hard copy or 1 fax copy)

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

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

- 2.1 Bidders must submit their financial bid in accordance with the Basis of Payment, Annex "B". The total amount of Applicable Taxes must be shown separately.

2.2 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

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.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

Mandatory technical evaluation criteria are included in Annex "C".

1.2 Financial Evaluation

1.2.1 The Total Bid price will be calculated as per the following:

- a) The unit price quoted for item 1.1 will be multiplied by the estimated quantity to arrive at a total extended price.
- b) The total price of each item (1.1, 1.2, 1.3) will be aggregated to determine the Total Bid Price.

1.2.2 SACC Manual Clause A0220T (2013-04-25), Evaluation of Price

2. Basis of Selection - Mandatory Technical Criteria

- 2.1 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

Bidders must provide the required certifications and documentation 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 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 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.hrsdc.gc.ca/eng/labour/index.shtml)" list (<http://www.hrsdc.gc.ca/eng/labour/index.shtml>) available from [Human Resources and Skills Development Canada \(HRSDC\) - 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

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

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.

3.1 General Conditions

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date - Genetic Analyzer unit

The deliverables (unit, installation, training) must be received on or before 2014-MARCH-31. Delivery will be to:

Canadian Animal Genetic Resources
Agricultrue & Agri-Food Canada
6071 - 51 Campus Drive,
Saskatoon, SK

4.2 Shipping Instructions - Delivery at Destination

Delivered Duty Paid (DDP) Saskatoon, SK, Incoterms 2000 for shipments from a commercial contractor.

4.3 Optional Goods - Maintenance Plan :

The Contractor grants to Canada the irrevocable option to extend the contract by up to one (1) additional one (1) year period, upon expiry of the warranty period, exercisable at any time during the Term of the Contract or warranty period. The option may only be exercised by the Contracting

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Authority by notice in writing and will be evidenced, for administrative purposes only, by a contract amendment.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Lorraine Jenkinson
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch, Western Region
Telus Plaza North, 5th Floor
10025 Jasper Avenue
Edmonton, AB T5J 1S6

Telephone: 780-497-3593 Facsimile: 780-497-3510
E-mail address: lorraine.jenkinson@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.

5.2 Project Authority

(to be named in the contract)

The Project Authority for the Contract is:

Name: _____
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.

5.3 Contractor's Representative

Name: _____
Title: _____
Organization: _____

Telephone : _____ Facsimile: _____
E-mail address: _____

6. Blank**7. Payment****7.1 Basis of Payment****7.1.1 Genetic Analyzer (Unit, Installation, Training)**

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 \$ _____ insert the amount at contract award). 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.

7.1.2 Maintenance Plan

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment in Annex "B", to a limitation of expenditure of \$ _____ (insert the amount at contract award). Customs duties are included and Applicable Taxes are extra.

7.2 Limitation of Expenditure

7.2.1. Canada's total liability to the Contractor under the Contract must not exceed \$ _____. Customs duties are _____ (insert "included", "excluded" or "subject to exemption") and Applicable Taxes are extra.

7.2.2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:

- a. when it is 75 percent committed, or
 - b. four (4) months before the contract expiry date, or
 - c. as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,
- whichever comes first.

7.2.3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

7.3 Method of Payment**7.3.1 Genetic Analyzer - Single Payment**

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all such documents have been verified by Canada;
- c. the Work delivered has been accepted by Canada.

7.3.2 Maintenance Plan - Monthly Payment

Canada will pay the Contractor on a monthly basis for work performed during the month covered by the invoice in accordance with the payment provisions of the Contract if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all such documents have been verified by Canada;
- c. the Work performed has been accepted by Canada.

7.4 SACC Manual Clauses

A9117C (2007-11-30), T1204 - Direct Request by Customer Department

C2000C (2007-11-30), Taxes - Foreign-based Contractor

C2002C (2010-01-11), Duties and Taxes - Foreign-based Contractor - State of California

8. Invoicing Instructions

- 8.1. 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.
- 8.2. 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.

9. Certifications

9.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation 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.

10. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. (Insert the name of the province or territory as specified by the Bidder in its bid, if applicable)

11. Priority of Documents

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edm607

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AAFC

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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 (2013-04-25), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: “, as clarified on _____” or “, as amended on _____” and insert date(s) of clarification(s) or amendment(s)*)

13. SACC Manual Clauses

A9068C (2010-01-11), Government Site Regulations

B1501C (2006-06-16), Electrical Equipment

B1000T (2007-11-30), Condition of Material

B7500C (2006-06-16), Excess Goods

REQUIREMENT..... ANNEX "A"**Genetic Analyzer****1. Background:**

The Canadian Animal Genetic Resources (CAGR) program has a mandate to protect Canadian domestic livestock, poultry and heritage breeds through the collection and cryopreservation of germplasm. This initiative is achieved through independent donations from producers and artificial insemination (AI) centers interested in the conservation of animal genetics. A portion of these donations are used in research projects investigating, characterizing and evaluating the genetic diversity of these species. To realize the different research projects, our group requires the acquisition of a genetic analyzer which will facilitate current and future projects investigating genetic diversity and characterization of Canadian livestock and poultry species. Our group needs to replace its current genetic analyzer (ABI 3130xl, Life Technologies). The next genetic analyzer must have the capability of genotyping SSR (Simple Stranded Repeats) and serve as an adequate platform for producing high quality sequence data used to assess mtDNA lineage, and haplotype diversity within and among livestock populations. In addition, this system must also have the capability to test SNPs, which will be of interest for future genetic diversity and conservation projects within the CAGR. Finally, the new system must be able to read the over 2000 existing .fsa (fragment analysis) files that have been generated with the current DNA analyzer.

2. Specifications:

The system must be fully functional and operational.

- A. Ability to sequence nucleotides using dye terminators labeled with high sensitivity dyes. This chemistry allows for an intense product of a higher quality in comparison to previously used chemistries. The dye terminators are labeled as follows:

Terminator	Acceptor Dye
A	dichloro[R6G]
C	dichloro[ROX]
G	dichloro[R110]
T	dichloro[TAMRA]

- o For sequencing applications, 4 different dyes are required to determine the 4 nucleotide bases A, C, G, and T.
 - o The system must use collection software with the ability to filter and detect the dye terminators.
- B. For DNA fragments (SSR) analysis applications, require the utilization of a 5 fluorescent dye chemistry to enable multiplexing of fragments in 1 reaction to increase throughput capacity.
- o Fluorescent dyes utilized are 6-FAM™, PET®, NED™, VIC® and LIZ®.
 - o System must use collection software with the ability to filter and detect the G5 Dye Set
- C. Capillary based method of fragment separation

-
- o System must have a 24 channel capillary array system to enable high-throughput electrophoretic separation of fragments.
 - o Capillary arrays need to be supplied with a built-in frame to allow for simple installation.
 - o Arrays must be supplied in various lengths (usually 36cm and 50cm) to facilitate a multitude of applications.
 - o Capillary arrays must be compatible with multiple Performance optimized Polymers such as POP-7™, POP-6™ and POP-4™ (offered by Life Technologies) for assay versatility.
 - o 5 extra capillary arrays of specified length must be supplied by the manufacturer.
- D. Solid state laser
- o System must contain a single-line solid state laser as the molecular excitation source for all dyes as previously cited in section A and B of this document.
 - o Laser must function using a standard power supply.
- E. 8 strip tube, 96 well and 384 well plate capabilities
- o Platform must be able to inject samples from an 8, 96 or 384 well plate format to enable sample run versatility.
- F. Secondary Analysis Software Options
System must come equipped with the following software which will be utilized for a variety of analysis applications.
- o Sequencing analysis software for sequence basecall, editing, re-basecalling, reporting, and printing.
 - o SNP detection software that has ability for mutation detection, SNP discovery, comparative sequencing, resequencing, validation, and sequence confirmation.
 - o Genotype analysis software microsatellite, LOH (loss of heterozygosity), SNP, MLPA (Multiplex Ligation-dependent Probe Amplification) AFLP (Amplified Fragment Length Polymorphism), and TRFLP (Terminal Restriction Fragment Length Polymorphism) analyses.
 - o The microsatellite analysis software must be able to import .fsa formatted files. It is crucial that the previously generated raw data files containing genotypic data have the ability to interface with newly acquired data.
 - o System must include collection software which controls the instrument and generates sample data files in either .fsa (fragment analysis) or .ab1 (sequencing) format. Currently, there are over 2000 .fsa files and 1000 .ab1 files that require a software that not only has the ability to generate, but also read what files have been previously been created
- G. Workstation
The computer must have these minimum requirements:
- o System must come with workstation and monitor.
 - o Operating system: Windows Vista or comparable.

- o Hard Drive: minimum of a 1X 80 GB 7200 RPM SATA 3.0 GB/s and 8 MB Data Burst Cache.
- o Must come equipped with 1 LCD or LED flat screen monitor for visualization and analysis of data.

3. **Warranty**

As per 2010A General Conditions - Goods (Medium Complexity), section 09 - Warranty, the Contractor will provide a minimum twelve (12) month warranty from the date of installation and acceptance. The warranty must be included in the quoted price. Every repair or replacement of instrument components must be performed by an authorized supplying company specialist.

4. **Installation and training**

An authorized company installation specialist must install the system and certify it is operating properly. Also, all applicable training must be provided to primary users covering description, utilization and operation of instrument features so as to minimize negligent operation by users.

One complete set of instruction manuals in English must be supplied with the instrument, however, French and English instructions are preferred.

5. **Optional Goods - Maintenance Plan :**

The Contractor grants to Canada the irrevocable option to extend the contract by one (1) additional 1-year period upon expiry of the warranty period. The Maintenance Plan will include:

- o Provide guaranteed on site response within 2-3 business days; .
- o Provide a minimum of one (1) planned maintenance visit(s) per annum;
- o Include the costs of factory certified replacement parts;
- o Provide telephone and email access to technical support:
 - (i) Telephone Technical Support: The Contractor must provide the Technical Hotline Support through the Contractor's toll-free hotline (if possible) at [Vendor's Hotline Number] _____, in English, from 8:00 A.M. to 5:00 P.M. Central Time, Monday to Friday (excluding statutory holidays observed by the federal government in the province from which the call is made). The Contractor must answer or return all calls (with a live service agent) within 60 minutes of the initial time of the Client or User's initial call.
 - (ii) Email Technical Support: The Contractor must provide Canada with technical support services through email in English, from 8:00 A.M. to 5:00 P.M. Central Time, Monday to Friday (excluding statutory holidays observed by the federal government in the province from which the call is made). The Contractor must answer or return all email within 60 minutes of the initial email from the Client or User's initial email.
 - (iii) The Contractor's personnel must be qualified and able to respond to the Client or User's questions and, to the extent possible, be able to resolve user problems over the telephone or email and provide advice regarding problems relating to the unit.

BASIS OF PAYMENT ANNEX "B"**Instruction to Bidders:**

Bidders are requested to complete the table below and submit completed table with their bid.

- Firm Unit Prices are FOB Destination and include all delivery charges.
- The Firm Lot Price for the Installation and Training must include all costs for labour, materials, equipment, tools, travel/meals/lodging, and supervision necessary to provide the work.
- Firm Unit Prices do not include Applicable taxes. Applicable Taxes will be added as a separate line item to any invoice issued as a result of a Contract.

Item	Description	Quantity [A]	Firm Unit Price [B]	Extended Price [A X B]
1.1	Supply and delivery of the complete Genetic Analyzer system in compliance with the Minimum Performance Specifications and the requirement outlined in Annex A.	1	\$_____	\$
1.2	INSTALLATION AND TRAINING	1 lot		\$
	Firm Price			\$
1.3	Optional Goods - Maintenance Plan	1 lot		\$
	Total Est. Cost - Maintenance Plan:			\$
	TOTAL BID PRICE:			\$

EVALUATION CRITERIA ANNEX "C"

A. MANDATORY TECHNICAL CRITERIA

1. Minimum Performance Specifications

- a) To be considered responsive Bidders must clearly indicate compliance or noncompliance with each line item below by indicating "Yes" or "No" under the "Comply" Column.
- b) To demonstrate compliance, Bidders should also include and appropriately cross reference published technical information that confirms compliance with each mandatory criterion specified herein (unless stipulated as "not applicable for this item").

If published technical documentation does not exist for a specific requirement, then a written narrative explaining how the product offered meets the specification should be included with the Bid. Failure to comply with any of the mandatory technical requirements will disqualify the bid from further consideration.

Make and Model Number of Product(s) Offered: _____

Item	Description	Comply (Bidders shall indicate Yes or No)	Supporting Information (cross-reference)										
A.	<p>Ability to sequence nucleotides using dye terminators labeled with high sensitivity dyes. This chemistry allows for an intense product of a higher quality in comparison to previously used chemistries. The dye terminators are labeled as follows:</p> <table border="1" data-bbox="332 1278 862 1516"> <thead> <tr> <th>Terminator</th> <th>Acceptor Dye</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>dichloro[R6G]</td> </tr> <tr> <td>C</td> <td>dichloro[ROX]</td> </tr> <tr> <td>G</td> <td>dichloro[R110]</td> </tr> <tr> <td>T</td> <td>dichloro[TAMRA]</td> </tr> </tbody> </table> <ul style="list-style-type: none"> o For sequencing applications, 4 different dyes are required to determine the 4 nucleotide bases A, C, G, and T. o The system must use collection software with the ability to filter and detect the dye terminators. 	Terminator	Acceptor Dye	A	dichloro[R6G]	C	dichloro[ROX]	G	dichloro[R110]	T	dichloro[TAMRA]		
Terminator	Acceptor Dye												
A	dichloro[R6G]												
C	dichloro[ROX]												
G	dichloro[R110]												
T	dichloro[TAMRA]												

Item	Description	Comply (Bidders shall indicate Yes or No)	Supporting Information (cross-reference)
B.	<p>For DNA fragments (SSR) analysis applications, require the utilization of a 5 fluorescent dye chemistry to enable multiplexing of fragments in 1 reaction to increase throughput capacity.</p> <ul style="list-style-type: none"> o Fluorescent dyes utilized are 6-FAM™, PET®, NED™, VIC® and LIZ®. o System must use collection software with the ability to filter and detect the G5 Dye Set. 		
C.	<p>Capillary based method of fragment separation</p> <ul style="list-style-type: none"> o System must have a 24 channel capillary array system to enable high-throughput electrophoretic separation of fragments. o Capillary arrays need to be supplied with a built-in frame to allow for simple installation. o Arrays must be supplied in various lengths (usually 36cm and 50cm) to facilitate a multitude of applications. o Capillary arrays must be compatible with multiple Performance optimized Polymers such as POP-7™, POP-6™ and POP-4™ (offered by Life Technologies) for assay versatility. o 5 extra capillary arrays of specified length must be supplied by the manufacturer. 		
D.	<p>Solid state laser</p> <ul style="list-style-type: none"> o System must contain a single-line solid state laser as the molecular excitation source for all dyes as previously cited in section A and B of this document. o Laser must function using a standard power supply. 		
E.	<p>8 strip tube, 96 well and 384 well plate capabilities</p> <ul style="list-style-type: none"> o Platform must be able to inject samples from an 8, 96 or 384 well plate format to enable sample run versatility. 		

Item	Description	Comply (Bidders shall indicate Yes or No)	Supporting Information (cross- reference)
F.	<p>Secondary Analysis Software Options</p> <p>System must come equipped with the following software which will be utilized for a variety of analysis applications.</p> <ul style="list-style-type: none"> o Sequencing analysis software for sequence basecall, editing, re-basecalling, reporting, and printing. o SNP detection software that has ability for mutation detection, SNP discovery, comparative sequencing, resequencing, validation, and sequence confirmation. o Genotype analysis software microsatellite, LOH (loss of heterozygosity), SNP, MLPA (Multiplex Ligation-dependent Probe Amplification) AFLP (Amplified Fragment Length Polymorphism), and TRFLP (Terminal Restriction Fragment Length Polymorphism) analyses. o The microsatellite analysis software must be able to import .fsa formatted files. It is crucial that the previously generated raw data files containing genotypic data have the ability to interface with newly acquired data. o System must include collection software which controls the instrument and generates sample data files in either .fsa (fragment analysis) or .ab1 (sequencing) format. Currently, there are over 2000 .fsa files and 1000 .ab1 files that require a software that not only has the ability to generate, but also read what files have been previously been created 		
G.	<p>Workstation</p> <p>The computer must have these minimum requirements:</p> <ul style="list-style-type: none"> o System must come with workstation and monitor. o Operating system: Windows Vista or comparable. o Hard Drive: minimum of a 1X 80 GB 7200 RPM SATA 3.0 GB/s and 8 MB Data Burst Cache. o Must come equipped with 1 LCD or LED flat screen monitor for visualization and analysis of data. 		

2. Warranty

The bid must provide the Warranty described in Annex A.

3. Installation and training

The bid must provide the Installation and training described in Annex A.

4. Optional Goods - Maintenance Plan :

The bid must provide the Maintenance Plan described in Annex A.

5. Delivery Date:

Delivery is mandatory to be no later than 2014-March-31. Please indicate below:

Meet Delivery Requirement _____

or

Unable to Meet Delivery Requirement _____

Bids which do not meet all of the Mandatory Technical Criteria listed above will be deemed non-compliant and given no further consideration.

If upon delivery and acceptance, the product is found not to meet the Minimum Performance Specifications, the product will be returned at the Suppliers expense and the Contract terminated for default.