

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Travaux publics et Services gouvernementaux
Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7 ième étage
Montréal
Québec
H5A 1L6
Bid Fax: (514) 496-3822

**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 High Pressure Homogenizer	
Solicitation No. - N° de l'invitation 31241-121949/A	Date 2013-02-01
Client Reference No. - N° de référence du client 31241-12-1949	
GETS Reference No. - N° de référence de SEAG PW-\$MTA-075-12256	
File No. - N° de dossier MTA-2-35219 (075)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-03-18	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
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: Dickens, Anne	Buyer Id - Id de l'acheteur mta075
Telephone No. - N° de téléphone (514) 496-3412 ()	FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CONSEIL NATIONAL DE RECHERCHES DU CANADA (PORTES 6 & 7) VIA ENTRÉE RÉCEPTION MARCHANDISES 6100 AVENUE ROYALMOUNT MONTREAL Québec H4P2R2 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

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

Issuing Office - Bureau de distribution

Travaux publics et Services gouvernementaux Canada
Place Bonaventure, portail Sud-Est
800, rue de La Gauchetière Ouest
7 ième étage
Montréal
Québec
H5A 1L6

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

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

3. Debriefings

After contract award, 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 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

1.1 SACC Manual Clauses

SACC Manual Clause B1000T (2007-11-30), Condition of Material

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.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than four (4) 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 Quebec.

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 (two (2) hard copies)

Section II: Financial Bid (one (1) hard copy)

Section III: Certifications (one (1) hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft 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 Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

1.1 Exchange Rate Fluctuation

C3011T (2010-01-11), Exchange Rate Fluctuation

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1.2 SACC Manual Clauses

SACC Manual Clauses A0222T (2010-01-11), Evaluation of Price

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

See Annex C - Evaluation Criteria.

1.2 Financial Evaluation

1.2.1 SACC Manual Clause A0220T (2007-05-15), Evaluation of Price

The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, FOB destination, Canadian customs duties and excise taxes included.

1.2.2 Firm Unit Price

The bidder must quote firm unit price inclusive of delivery, installation, training as detailed in Annex B, basis of payment.

2. Basis of Selection

2.1 Basis of Selection - Mandatory Technical Criteria

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 related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

- 1.1.1** By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms ([Consent to a Criminal Record Verification](http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html) form- PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

2.1 Federal Contractors Program - Certification

2.1.1 Federal Contractors Program - \$200,000 or more

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.
3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) ☐ is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) ☐ is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) ☐ is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;

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(d) () is subject to the FCP, and has a valid certificate number as follows: _____
(e.g. has not been declared an ineligible contractor by HRSDC.)

Further information on the FCP is available on the HRSDC Web site.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The Contractor must perform the Work in accordance with the Requirement at Annex A and the Contractor's technical bid entitled _____, dated _____.

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 (2012-11-19), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

The General Conditions 2010A (2012-11-19) are amended as follows:

Article 9 - Warranty, paragraph 2:

Delete:

If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location and will be reimbursed its reasonable travel and living expenses.

Insert:

If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location and the travel and living expenses will not be reimbursed.

4. Term of Contract

4.1 Delivery Date

While all the deliverables must be received before August 31, 2013, and must not be received before April 1, 2013, the best delivery that could be offered is _____.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Anne Dickens
Procurement Officer
Public Works and Government Services Canada
Acquisitions Branch
800 rue de la Gauchetière ouest, local 7300, Montréal, QC, H5A 1L6

Telephone: (514) 496-3412
Facsimile: (514) 496-3822
anne.dickens@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

The Project Authority for the Contract will be named upon contract award.

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

6. Payment

6.1 Basis of Payment

6.1.1 Basis of Payment - Firm Price

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, Basis of Payment, for a cost of \$ _____ (insert the amount at contract award). Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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.

6.2 Multiple Payments

SACC Manual Clause H1001C (2008-05-12), Multiple Payments

6.3 Schedule of Milestones

The schedule of milestones for which payments will be made in accordance with the Contract is as follows:

Milestone No.	Deliverable	Firm Amount
1	Delivery and Installation	80% of firm price
2	Successful Acceptance Test	20% of firm price

6.4 SACC Manual Clauses

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

C2602C (2008-05-12), Customs Duties Exempt (National Research Council of Canada)

6.5 Shipping Instructions - FOB Destination

Goods must be consigned and delivered to the destination specified in the contract:

Incoterms 2000 "DDP Delivered Duty Paid" National Research Council Canada, Montreal.

7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

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

8. Certifications

8.1 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.

9. Applicable Laws

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

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 (2012-11-19), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Evaluation Criteria;
- (f) Annex D, Acceptance Test;
- (g) the Contractor's bid dated _____ (*insert date of bid*)

11. Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

12. SACC Manual Clauses

SACC Manual Clause A9068C (2010-01-11), Government Site Regulations

SACC Manual Clause A2000C (2006-06-16), Foreign Nationals (Canadian Contractor)

SACC Manual Clause A2001C (2006-06-16), Foreign Nationals (Foreign Contractor)

SACC Manual Clause B1501C (2006-06-16), Electrical Equipment

13. Inspection and Acceptance

The Project Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of Annex A, Requirement and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

ANNEX A

REQUIREMENT

1.0 Objectives

The National Research Council Canada-Montreal (NRC) is seeking to purchase a high-pressure homogenizer.

The NRC's microbial fermentation pilot plant helps biotechnology companies to develop, optimize and scale up microbial fermentation and protein purification processes.

The high-pressure homogenizer is needed for microbial cell disruption to recover proteins, enzymes and inclusion bodies.

The scope of the work includes the supply, delivery, installation and start-up of the high-pressure homogenizer at the NRC's site in Montreal and training for staff.

2.0 High-pressure Homogenizer – Specifications

2.1 Constraints

2.1.1 Skid dimension

The skid must not exceed (2 m (width) x 2.5 m (depth) x 2 m (height)).

2.1.2 The high-pressure homogenizer must be operable with one or more services available at the installation site. Those services are:

- 600 volts / 3 phases / 60 Hz
- 120 volts / 60 Hz
- Chilled water ($\approx 1^{\circ}\text{C}$)
- Reverse osmosis water
- City water
- Plant steam (2.5 bars max)
- Air (100 psi max)

2.2 Technical specifications

2.2.1 Working pressure

The working pressure must be at least 1,000 bars (14,500 psi).

2.2.2 Working capacity

The homogenizer's flow capacity at the maximum pressure (1,000 bars) must be at least 500 LPH and must not exceed 750 LPH.

2.2.3 Feeding pump

A pump to feed the high-pressure homogenizer must be integrated into the high-pressure homogenizer.

2.2.4 Cleaning

The high-pressure homogenizer must be CIP-able (cleanable in place) with commercially available CIP basic and acidic solutions.

2.2.5 Connections

The connection for the product inlet and outlet must be a sanitary 1" or 1½" TRI-clamp.

2.2.6 Heat Exchanger

The high-pressure homogenizer must include a heat exchanger capable of maintaining the temperature of the product at 10°C. The temperature of the coolant (water) is 1°C.

2.2.7 Control panel

A control panel needed to operate the high-pressure homogenizer must be included.

2.2.8 Instrumentation

The high-pressure homogenizer must be able to measure and display the inlet and head pressure (homogenization pressure), the outlet temperature and the product flow.

4.0 Standards

The homogenizer must comply with ASME BPE standards of the American Society of Mechanical Engineers, Section for homogenizer-SD 4.10- Cell disrupters.

The panel must meet NEMA 4 or IP65 standards.

5.0 Guarantee

The high-pressure homogenizer must have a minimum of one (1) year guarantee starting from date of acceptance, covering all parts, labor and travel expenses.

6.0 After-sales Service

The supplier must provide on-site after-sales service for a period of two (2) years within five working days from a service call. The service will be carried out during working hours, between 9h00AM and 5h00 PM) from Monday to Friday, excluding holidays.

Maintenance service for this period is defined as follows: preventive maintenance (one annual visit), repair service for the homogenizer and problem solving service for the homogenizer. Labour is included and parts must be invoiced at cost.

7.0 Prototype

The high-pressure homogenizer must not be a prototype.

7.0 Deliverables

Complete high-pressure homogenizer including the control panel and feed pump.

7.1 The following documentation (in French and/or English):

- A detailed P&ID of the high-pressure homogenizer;
- A copy of the electrical schematic drawings of the high-pressure homogenizer;
- A copy of the operation, cleaning and maintenance documentation;
- A list of spare parts;
- A copy of instrument calibration certificates;
- A copy of the manufacturer's technical documentation.

7.2 Installation and start-up of the high-pressure homogenizer

- The homogenizer installation will be performed by the supplier. The work relating to services (see Section 2.2) are the responsibility of NRC Montreal.
- The supplier must perform one on-site test using reverse osmosis water after installation;
- During the test, the high-pressure homogenizer must operate according to the mandatory technical specifications defined in Section 3 of Annex A, and according to the technical documentation of the system's manufacturer and supplier.

7.3 Tools

One (1) toolkit required to operate and maintain the high-pressure homogenizer.

7.4 After-sales Service

A two (2) year after-sales service, as defined in 3.12, offered on site at 6100 Royalmount Montreal, QC, H4P 2R2, must be included in the price.

7.5 Parts

One (1) set of spare parts required for the use of the homogenizer and periodic maintenance.

7.6 Training

Training must be provided on site at 6100 Royalmount Avenue, Montreal, Quebec, in the regular use of the proposed the high-pressure homogenizer within 10 working days after it is installed. The training must include the following:

- An English or French user manual (at least two copies on CD or paper);
- A course in English or French for at least two NRC employees on the operation of the high-pressure homogenizer;
- Troubleshooting checklists and instructions if the system does not function properly.

8.0 Delivery and installation

The high-pressure homogenizer must be delivered to and installed at 6100 Royalmount Avenue, Montreal, Quebec, H4P 2R2.

ANNEX B

BASIS OF PAYMENT

Eighty percent (80%) of the total amount of the contract will be payable upon the complete delivery of the equipment. A 20% holdback will be payable after final acceptance. Acceptance will be evaluated using the acceptance test described in Appendix D.

Requirement	Price	Duration of contract - Deliverables		
	Firm Price, DDP CNRC, Montréal*	Date of delivery, installation and start-up	Date of Training	After-Sales Service°
High-pressure Homogenizer , and: - documentation; - installation and start-up; - one (1) toolkit; - after-sales service ; - one (1) set of spare parts; - training; as described in Annex A, Requirement	_____ \$	While delivery is requested by august 31, 2013, the best delivery that could be offered is : _____	must be within ten (10) working days from date of installation	2 years from date of final acceptance

* Traveling expenses incurred by the contractor in the performance of after-sales services and services covered under the guarantee are not invoiceable.

° Parts must be invoiced at cost

ANNEX C

Evaluation Criteria

1. Evaluation of Proposals

Proposals must demonstrate that they meet all the Mandatory Technical Criteria identified below.

To facilitate the evaluation, the offeror may indicate the location in the proposal where the Mandatory Technical Criteria are demonstrated in the right hand column of the following table.

2. Mandatory Technical Criteria		Location in the proposal where the Mandatory Technical Criteria are demonstrated
2.1 Constraints		
2.1.1	Skid dimension : The skid must not exceed (2 m (width) x 2.5 m (depth) x 2 m (height)).	
2.1.2	The high-pressure homogenizer must be operable with one or more services available at the installation site. Those services are: <ul style="list-style-type: none">• 600 volts / 3 phases / 60 Hz• 120 volts / 60 Hz• Chilled water ($\approx 1^{\circ}\text{C}$)• Reverse osmosis water• City water• Plant steam (2.5 bars max)• Air (100 psi max)	
2.2 Technical Specifications		
2.2.1	Working pressure The working pressure must be at least 1,000 bars (14,500 psi).	
2.2.2	Working capacity The homogenizer's flow capacity at the maximum pressure (1,000 bars) must be at least 500 LPH and must not exceed 750 LPH.	

2.2.3	Feeding pump A pump to feed the high-pressure homogenizer must be integrated into the high-pressure homogenizer.	
2.2.4	Cleaning The high-pressure homogenizer must be CIP-able (cleanable in place) with commercially available CIP basic and acidic solutions.	
2.2.5	Connections The connection for the product inlet and outlet must be a sanitary 1" or 1½" TRI-clamp.	
2.2.6	Heat Exchanger The high-pressure homogenizer must include a heat exchanger capable of maintaining the temperature of the product at 10°C. The temperature of the coolant (water) is 1 °C.	
2.2.7	Control panel A control panel needed to operate the high-pressure homogenizer must be included.	
2.2.8	Instrumentation The high-pressure homogenizer must be able to measure and display the inlet and head pressure (homogenization pressure), the outlet temperature and the product flow.	

ANNEX D

Acceptance test

The NRC will conduct the acceptance test on site the day following the start-up or training date, whichever comes last. The test will be carried out over 14 consecutive days of operation and will be used to demonstrate that the high-pressure homogenizer meets the Mandatory Technical Specifications defined in Section 3 of Annex A, according to the manufacturer's technical and performance specifications and without any technical, mechanical or electrical problems.

Following the acceptance test, the NRC will send the supplier a performance report listing problems identified during the testing period and any corrections to be made.

The supplier must undertake to solve the problems in the report within 30 working days following receipt of the report.

When the results of the acceptance test comply with specifications, final acceptance will be given.