



**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  
FAX pour soumissions: (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

### Vendor/Firm Name and Address

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

### 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

<b>Title - Sujet</b> System for filtration	
<b>Solicitation No. - N° de l'invitation</b> 31241-165994/A	<b>Date</b> 2016-12-08
<b>Client Reference No. - N° de référence du client</b> 31241-16-5994	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MTA-160-14145	
<b>File No. - N° de dossier</b> MTA-6-39206 (160)	<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 2017-01-18</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Heure Normale du l'Est HNE
<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> Asquino, Carolina	<b>Buyer Id - Id de l'acheteur</b> mta160
<b>Telephone No. - N° de téléphone</b> (514) 496-3549 ( )	<b>FAX No. - N° de FAX</b> (514) 496-3822
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> CONSEIL NATIONAL DE RECHERCHES DU CANADA PORTES 6&7, VIA ENTR. RÉCEPT. MARCH 6100 ROYALMOUNT AVE. MONTREAL Québec H4P2R2 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b> .	<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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Buyer ID - Id de l'acheteur  
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## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

There are no security requirements applicable to this requirement

### **1.2 Requirement**

The requirement is detailed under Annex A of the resulting contract clauses.

### **1.3 Comprehensive Land Claims Agreement(s)**

Not applicable

### **1.4 Set-aside Under the Federal Government Procurement Strategy for Aboriginal Business (PSAB)**

Not applicable

### **1.5 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.

### **1.6 National Security Exception**

Not applicable

### **1.7 Trade Agreements**

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

### **1.8 Canadian Content**

Not applicable

## **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 (2016-04-04) 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: 90 days

#### **2.1.1 SACC Manual Clauses**

B1000T (2014-06-26), Condition of Material - Bid

### **2.2 Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

### **2.3 Former Public Servant**

Not applicable

### **2.4 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) 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.

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## 2.5 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.

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## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

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

Section I: Technical Bid (2 hard copies)  
Section II: Financial Bid (1 hard 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) (<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. Bidders will be evaluated as per the table of mandatory technical criteria in **Annex C - Mandatory Technical Criteria Table**, but must also meet the minimum requirements as stated in Annex A.

#### Section II: Financial Bid

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

##### 3.1.1 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "D" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "D" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

##### 3.1.2 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

#### Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria**

The bidder must offer products meeting all the technical specifications and components described in Annex A. Bids will be evaluated on the mandatory technical requirements of Annex C.

The bidder must clearly demonstrate how the products offered meet all the mandatory technical criteria in Annex C. The mere mention that it meets the criteria is not enough. The bidder must provide sufficient detail to enable a full assessment.

Any proposal that does not clearly demonstrate compliance with each of the technical requirements listed in the table "Mandatory Technical Criteria" (Annex C), will be considered non-responsive.

Only proposals that meet the mandatory criteria will be subject to financial evaluation. Bids that do not meet these conditions will be rejected.

#### **4.1.2 Financial Evaluation**

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

The Bidder must complete and include with its proposal **Annex B - Basis of Payment**. If a field is empty, the price will be considered \$ 0.

### **4.2 Basis of Selection**

#### **4.2.1 Basis of Selection - Mandatory Technical Criteria**

SACC Manual Clause [A0031T](#) (2010-08-16), Basis of Selection - Mandatory Technical Criteria



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## 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. Unless specified otherwise, 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 Integrity Provisions - Declaration of Convicted Offences

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

### 5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

#### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

#### 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 available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website ([http://www.esdc.gc.ca/en/jobs/workplace/human\\_rights/employment\\_equity/federal\\_contractor\\_program.page?&\\_ga=1.229006812.1158694905.1413548969](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969)).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

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## PART 6 - RESULTING CONTRACT CLAUSES

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

### 6.1 Security Requirements

6.1.1 There is no security requirement applicable to the 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) (<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 (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 6.4 Term of Contract

#### 6.4.1 Period of the Contract

The period of the Contract is from date of Contract award to June 30, 2017 inclusive.

#### 6.4.2 Delivery Date

While delivery is requested by February 28, 2017, all the deliverables must be received and installed on or before March 31, 2017.

#### 6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Carolina Asquino  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch -Quebec Region  
800 de la Gauchetière Street West, Suite 7300, Montreal (Quebec), H5A 1L6

Telephone: 514-496-3549  
Facsimile: 514-496-3822  
E-mail address: [Carolina.Asquino@tpsgc-pwgsc.gc.ca](mailto:Carolina.Asquino@tpsgc-pwgsc.gc.ca)

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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: *(To be completed by Canada at contract award only)*

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.

### 6.5.3 Contractor's Representative

#### 6.5.3.1 For the Contract:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
  
Telephone: \_\_\_\_ \_\_\_\_ \_\_\_\_  
E-mail address: \_\_\_\_\_

#### 6.5.3.2. For the delivery, installation and training:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
  
Telephone: \_\_\_\_ \_\_\_\_ \_\_\_\_  
E-mail address: \_\_\_\_\_

### 6.6 Proactive Disclosure of Contracts with Former Public Servants

Not applicable

## **6.7 Payment**

### **6.7.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price as specified in Annex B for a cost of \$ \_\_\_\_\_ (insert 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.

### **6.7.2 Single Payment**

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

### **6.7.3 SACC Manual Clauses**

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

C2605C (2008-05-12), Canadian Customs Duties and Sales Tax - Foreign-based Contractor

### **6.7.4 Electronic Payment of Invoices – Contract**

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

## **6.8 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:
  - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## **6.9 Certifications and Additional Information**

### **6.9.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

## 6.10 Applicable Laws

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

## 6.11 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 (2016-04-04), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_.

## 6.12 SACC Manual Clauses

B1501C (2006-06-16), Electrical Equipment  
B7500C (2006-06-16), Excess Goods  
D0018C (2007-11-30), Delivery and Unloading  
G1005C (2016-01-28), Insurance - No Specific Requirement

## 6.13 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 the Statement of Work 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 Object**

The National Research Council (NRC) wishes, in order to continue to serve in particular external client contracts and related cell culture productions, to purchase two perfusion systems that are based on Alternate Tangential Flow (ATF) technology and that are to be used at the cell culture pilot plant facility in Montreal (Royalmount).

The ATF perfusion system will be used in client contracts to develop perfusion processes with high cell densities and long culture run times and thus generate revenue for the NRC.

Due to its easy set-up and long run times compared to other process configurations such as batch and fed-batch cultures, operator time (set-up, operation and cleaning) is greatly reduced, allowing significant cost savings while higher production is usually delivered in high-cell density processes.

The ATF technology is an accepted manufacturing platform which scales nearly linearly and is simple to install, operate, maintain and validate. These factors are important when securing contracts with external clients.

The ATF technology is based on reversible flow through a hollow-fiber filter module with alternating high and low pressure cycles. This results in an efficient tangential flow as well as trans-membrane fluxes and therefore filter back-flushing with each cycle. The back-flushing prevents the filter from fouling even at very high cell density and consequently results in longer production processes compared to other perfusion technologies (e.g. internal spin filter). Due to the low shear generated, culture viability is typically remains high in an ATF perfusion process. In general, the ATF system supports extremely high cell concentrations such as 80-150 million cells per milliliter in many different cell line types including CHO, one of NRC's production platforms.

Sterilization can be done with the vessel or separately followed by connection via single-use connectors or a re-sterilizable valve set-up. Thus, depending on the chosen configuration, an ATF unit can be replaced during a process without compromising sterility.

An ATF perfusion system can be connected to any bioreactor using a wide range of standard port adapters and a dip tube (small scale) or sanitary diaphragm valves.

The ATF technology does currently not exist at NRC, Montreal.

Current operational constraints that are sought to be alleviated by the purchase are: short production durations due to premature cell death or failure to remove culture supernatant from the bioreactor caused by filter or membrane fouling. A perfusion technology that does not allow replacing the perfusion module during the process contributes to shorter production times as well as less flexibility and less process robustness.

Other important constraints are the level of hands on time required for the preparation, operation and maintenance of the equipment to successfully perfuse cells.

The fed-batch processes currently employed for several projects at NRC Royalmount require additional operator time to feed nutrients to the culture throughout the process. ATF perfusion systems on the other hand allow for the addition of culture media as well as removal of product containing supernatant without any additional operator time once the perfusion is started.

The acquisition of any other perfusion technology than an ATF system does not meet the requirements for client perfusion process development projects and would result in loss of investment.

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## 2.0 Constraints

Physical constraints of the ATF system are:

ATF filter housing:      Height = between 70 – 80 cm  
                                 Width = between 10 – 15 cm  
                                 Footprint = between 0.035 – 0.045 m<sup>2</sup>  
                                 Weight w/ liquid = between 1.5 – 2.5 kg  
                                 Material of construction = Stainless steel

Controller:                Height = between 32 – 35 cm  
                                 Width = between 28 – 32 cm  
                                 Depth = between 20 – 25 cm  
                                 Weight = between 18 – 20 kg

Utility requirements (available in our facilities):

- a. Compressed air: 35 - 90 PSIG
- b. Vacuum: minimum -14 psig
- c. Electricity: 100 – 240 V AC, 50/60 Hz, 0.6 Amp

Materials on construction:

- a. ATF housing: stainless steel
- b. Diaphragm: silicone
- c. Tubing: silicone
- d. O-rings: silicone
- e. Hollow-fiber filter: polyethersulfone (PES)

## 3.0 Mandatory technical specifications

Specific required PARTS:

- 3.1 The ATF system for filtration must have a pump module.
- 3.2 The pump module must have a silicone diaphragm, an upper hemisphere (liquid side) with a vent port and a lower hemisphere (air side) with an air inlet assembly.
- 3.3 The ATF system for filtration must have a microfiltration polyethersulfone hollow fiber module (0.2 µm) with upper and lower filtrate ports. It sanitarily attaches to the pump module.
- 3.4 The ATF system for filtration must have an ATF hollow fiber module connection to the bioreactor (a silicone tubing with sanitary tri-clamp ends).
- 3.5 The ATF system for filtration must be supplied with a 10mm headplate compression fitting for Applikon vessel.
- 3.6 The ATF system for filtration must be supplied with a dip tube, 450mm length, triclamp top for 5-15 L bioreactor.
- 3.7 The ATF system for filtration must have a controller equipped with a pump line for connection to the ATF system diaphragm pump module.
- 3.8 The controller must have a second stage air pressure gage and a secondary air pressure regulator.
- 3.9 The controller must have an air inlet port and an exhaust vacuum line connection.
- 3.10 The controller must have an HMI display.
- 3.11 The controller must have software programmed to control the ATF system for filtration (similar to the Repligen program for ATF perfusion system or equivalent).

## 4.0 Deliverables:

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MTA160  
CCC No./N° CCC - FMS No./N° VME

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- 4.1 Technical documentation: the ATF system must be delivered with at least one operating manual in English or French.
- 4.2 Installation: Installation by the supplier must be part of the purchase.
- 4.3 Training: operator training on site is required by supplier/manufacturer.
- 4.4 Standard customer support for questions after installation and training and during use must be available through the supplier.

## **5.0 Delivery and Installation**

The system must be delivered and installed at 6100, Royalmount Avenue, Montréal, Québec, H4P 2R2.  
Delivery: between 8 AM to 3 PM weekdays, except holidays  
Installation: 8 AM to 5 PM weekdays, except holidays  
Installation and training must occur at the same time.



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## ANNEX "B"

### BASIS OF PAYMENT

#### Note to Suppliers:

1. Firm prices, all inclusive, DDP destination, are required for all items in the table below.
2. All prices must include customs duties and Canadian excise taxes, if any.
3. Applicable taxes are additional for all items.

Brand: \_\_\_\_\_

Model #: \_\_\_\_\_

Warranty Information: \_\_\_\_\_

No.	Description	Quantity	Unit Price (\$)	Extended Price (\$)
1	ATF system for filtration including pump module, silicone diaphragm, tubing for bioreactor connection, sanitary clamps, gaskets, air filter and controller with air tubing (according to specification in Annex A & points # 3.1, 3.2, 3.7, 3.8, 3.9, 3.10, 3.11)	2	\$	\$
2	Dip tube, 450 mm length, triclamp top for 5-15 L bioreactor (according to specification in Annex A & point # 3.6)	2	\$	\$
3	10mm headplate compression fitting for Applikon vessel (according to specification in Annex A & point # 3.5)	2	\$	\$
4	Microfiltration polyethersulfone hollow fiber module for ATF system (0.2 µm) (according to specification in Annex A & points # 3.3, 3.4)	2	\$	\$
5	Delivery of the system (as described in Annex A, section 5.0)	1	\$	\$
6	Onsite training and installation by manufacturer (as described in Annex A, section 4.0 & 5.0)	1	\$	\$
Total before taxes			\$	

## ANNEX "C" MANDATORY TECHNICAL CRITERIA TABLE

The bidder must include with its proposal technical datasheets of the products offered. A "Technical datasheet" is defined as a document, such as a brochure, technical document, a drawing, a test report. This document must provide detailed information for each specification and performance requirement.

The bidder must clearly confirm how the products offered meet each of the mandatory technical criteria. Merely mentioning that it meets the criteria is not enough. The bidder must provide sufficient detail to enable a full assessment.

Any proposal that does not clearly demonstrate compliance with each of the technical requirements listed in the table "Mandatory Technical Criteria" detailed below, will be considered non-responsive and its proposal will be rejected.

No.	Mandatory Technical Specifications	To assist in the evaluation please indicate where it is in the technical proposal
3.1	The ATF system for filtration must have a pump module.	
3.2	The pump module must have a silicone diaphragm, an upper hemisphere (liquid side)	
3.3	The pump module must have a silicone diaphragm, an upper hemisphere (liquid side) with a vent port and a lower hemisphere (air side) with an air inlet assembly.	
3.4	The ATF system for filtration must have an ATF hollow fiber module connection to the bioreactor (a silicone tubing with sanitary tri-clamp ends).	
3.5	The ATF system for filtration must be supplied with a 10mm headplate compression fitting for Applikon vessel.	
3.6	The ATF system for filtration must be supplied with a dip tube, 450mm length, triclamp top for 5-15 L bioreactor.	
3.7	The ATF system for filtration must have a controller equipped with a pump line for connection to the ATF system diaphragm pump module.	
3.8	The controller must have a second stage air pressure gage and a secondary air pressure regulator.	
3.9	The controller must have an air inlet port and an exhaust vacuum line connection.	
3.10	The controller must have an HMI display.	
3.11	The controller must have software programmed to control the ATF system for filtration (similar to the Repligen program for ATF perfusion system or equivalent).	

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## **ANNEX “D” to PART 3 OF THE BID SOLICITATION**

### **ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ ( ) VISA Acquisition Card;
- ☐ ( ) MasterCard Acquisition Card;
- ☐ ( ) Direct Deposit (Domestic and International);
- ☐ ( ) Electronic Data Interchange (EDI);
- ☐ ( ) Wire Transfer (International Only);
- ☐ ( ) Large Value Transfer System (LVTS) (Over \$25M)