



**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 1T3  
Nova Scotia  
Bid Fax: (902) 496-5016

**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**

<b>Title - Sujet</b> Air Compressor	
<b>Solicitation No. - N° de l'invitation</b> 39903-170564/A	<b>Date</b> 2016-10-03
<b>Client Reference No. - N° de référence du client</b> 39903-17-0564	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-220-9942	
<b>File No. - N° de dossier</b> HAL-6-77119 (220)	<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 2016-11-18</b>	
<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT	
<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> Dunphy, Nancy	<b>Buyer Id - Id de l'acheteur</b> hal220
<b>Telephone No. - N° de téléphone</b> (902) 496-5481 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> CANADIAN FOOD INSPECTION AGENCY SEE HEREIN DARTMOUTH NOVA SCOTIA B3B 1Y9 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**

Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 3C9  
Nova Scot

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

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## **PART 1 - GENERAL INFORMATION**

### **1.1. Statement of Work**

The Canadian Food Inspection Agency is replacing its existing air compressor system that is used to generate compressed air for laboratory grade nitrogen generation. This is a Turn-Key Project, the successful bidder is responsible to supply and install 2 new air compressors as described in this document complete with independent air filtration stations. It is critical that during the installation process that there can be NO interruption of compressed air to laboratory operations. The bidder is responsible for the removal and disposal of two existing Atlas Copco GA11 Air Compressors, electrical transformers and associated air filtration station. The contractor is required to remove existing 440 volt transformers and install new 600 volt disconnect switches for each air compressor. The only components to be reused from the existing systems are the condensate management system and the secondary vertical receiver. Due to unique site conditions a mandatory site visit will be required for all bidders; the new compressors shall be installed on the existing housekeeping pad in the mechanical penthouse. The compressors and air stations shall be configured to allow for ease of maintenance servicing. See Annex A herein.

### **1.2. 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.

### **1.3. Trade Agreements**

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

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1. Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<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: sixty (60) days  
**Insert: ninety (90) days**

### **2.1.1 SACC Manual Clauses**

B3000T          Equivalent Products          2006-06-16

### **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.

Due to the nature of the bid solicitation, bids transmitted by electronic mail to PWGSC will not be accepted.

### **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.

### **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 [Nova Scotia](#).

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.

### **2.6 Mandatory Site Visit**

It is mandatory that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for the site visit to be held at CFIA Dartmouth Laboratory, 1992 Agency Drive, Dartmouth NS B3B 1Y9 on **Monday October 31st, 2016**. The site visit will begin at 13:00 HRS (Atlantic Time), in room A156.

Bidders must communicate with the Contracting Authority no later than **October 27, 2016 @ 15:00 HRS** (Atlantic Time) to confirm attendance and provide the name(s) of the person(s) who will attend. Bidders will be required to sign an attendance sheet. Bidders should confirm in their bid that they have attended the site visit. Bidders who do not attend the mandatory site visit or do not send a representative will not be given an alternative appointment and their bid will be

declared non-responsive. Any clarifications or changes to the bid solicitation resulting from the site visit will be included as an amendment to the bid solicitation

### **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 (3 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-pwgc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgc.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 demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

## **Section II: Financial Bid**

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

### **3.1.2 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**

### **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**

Mandatory criteria is included in Annex "D"

#### **4.1.2 Financial Evaluation**

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

### **4.2. Basis of Selection**

Basis of Selection criteria is included in Annex "D"

## **PART 5 - CERTIFICATIONS**

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 Precedent to Contract Award**

### **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.

### **5.1.2 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" 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.

### **5.1.3 OTHER CERTIFICATIONS \* *within 1 week of award of contract the successful bidder must provide documented proof of the following:***

1. All pressure vessels provided are to be equipped with CRN numbers registered for operation in Nova Scotia as per the Pressure Vessels Act.
2. All electrical devices must be CSA certified for operation in Canada
3. Contractor is responsible to for obtaining all necessary permits and approvals from regulatory agencies such as Electrical Permits, Dept of Labour – Pressure Vessels Act, Etc.

### **5.1.4 Workers Compensation Certification - Letter of Good Standing**

The Bidder must have an account in good standing with the applicable provincial or territorial Workers' Compensation Board.

The Bidder must provide, within 1 week following a request from the Contracting Authority, a certificate or letter from the applicable Workers' Compensation Board confirming the Bidder's good standing account. Failure to comply with the request may result in the bid being declared non-responsive.

## **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 Requirement**

There is no security requirement applicable to this Contract.

### **6.2. Statement of Work**

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A" and the Contractor's technical bid dated \_\_\_\_\_.

### **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 Delivery Date**

All the deliverables must be received on or before: 10 weeks ARO.

### **6.5. Authorities**

#### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

**Name:** Nancy Dunphy  
**Title:** Contract Officer  
Public Works and Government Services Canada  
Acquisitions Branch  
**Address:** 1713 Bedford Row, Halifax, NS B3J 3M9  
**Telephone:** (902) 496-5481  
**Facsimile:** (902) 496-5016  
**E-mail address:** nancy.dunphy@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.

Solicitation No. - N° de l'invitation  
39903-170564/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur  
HAL220

Client Ref. No. - N° de réf. du client  
39903-17-0564

File No. - N° du dossier  
HAL-6-77119

CCC No./N° CCC - FMS No./N° VME

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## 6.5.2 Project Authority

The Project Authority for the Contract is: **(To be named upon award of contract)**

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 (Bidder to fill in)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Procurement Business Number: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

Telephone : \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
E-mail address: \_\_\_\_\_

## 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 firm unit prices in Annex B for a cost of \$   TBD    (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.

### 6.7.2 Limitation of Price

SACC Manual clause [C6000C \(2011-05-16\)](#) Limitation of Price

### 6.7.3 Method of Payment

SACC Manual clause [H1000C \(2008-05-12\)](#) Single Payment

## 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:

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

**6.9. Certifications**

**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 Nova Scotia.

**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) **2010A (2016-04-04)**, General Conditions - Goods (Medium Complexity);
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*) .

**6.12. SACC Manual Clauses**

B1501C      Electrical Equipment      2006-06-16

## **ANNEX "A"**

### **STATEMENT OF WORK**

#### **Air Compressor Specification (10 hp )**

Rotary Screw Air Compressors with Integral Refrigerated Dryer and Storage Tank Complete With Microprocessor controllers and 3 stage secondary air filtration.

**KAESER MODEL: SM 10 AIRCENTER complete with Sigma 2 controller** or pre-approved equivalent

**10 HP 575/3/60**

**35 CFM-FAD @ 160 PSIG**

**3 STAGE DUPLEX SECONDARY AIR FILTRATION STATION AND 9 ELECTRONIC ZERO LOSS AUTOMATIC DRAIN VALVES PLUMBED INTO EXISTING CONDENSATE MANAGEMENT SYSTEM**

#### **PREAMBLE**

The Canadian Food Inspection Agency is replacing its existing air compressor system that is used to generate compressed air for laboratory grade nitrogen generation. This is a Turn-Key Project, the successful bidder is responsible to supply and install 2 new air compressors as described in this document complete with independent air filtration stations. It is critical that during the installation process that there can be NO interruption of compressed air to laboratory operations. The bidder is responsible for the removal and disposal of two existing Atlas Copco GA11 Air Compressors, electrical transformers and associated air filtration station. The contractor is required to remove existing 440 volt transformers and install new 600 volt disconnect switches for each air compressor. The only components to be reused from the existing systems are the condensate management system and the secondary vertical receiver. Due to unique site conditions a mandatory site visit will be required for all bidders; the new compressors shall be installed on the existing housekeeping pad in the mechanical penthouse. The compressors and air stations shall be configured to allow for ease of maintenance servicing.

A loading dock and elevator are available to assist with receiving of goods to the site.

The contractor shall "make good" all surfaces damaged during installation, concrete housekeeping pad shall be painted after compressors are installed and wall to be repaired and painted where air filtration stations are mounted. Match existing colours

All compressed air piping and drainage in the mechanical penthouse to be labelled and include directional arrows.

Upon completion of project provide a 2 copies of "as-built" schematic drawings and factory service manuals with equipment drawings and full parts breakdown.

## SPECIFICATIONS

### Part 1 General

#### 1.1 ACTION AND INFORMATIONAL SUBMITTALS

##### .1 Product Data:

.1 Submit manufacturer's instructions, printed product literature and data sheets for all equipment and include product characteristics, performance criteria, physical size, finish and limitations.

##### .2 Shop Drawings:

.1 Submit detailed engineered shop drawings from the OEM equipment manufacture

#### 1.2 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturers written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
  - .1 Store materials in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
  - .2 Store and protect all equipment from nicks, scratches, and blemishes.
  - .3 Replace defective or damaged materials with new.

#### General Lubricated Rotary Screw Compressor Package

1. Air compressor shall be a single stage, fluid-injected, air cooled rotary screw compressor completely pre piped and with pre-wired control system panel. Compressor shall be manufactured under strict ISO 9001:2008 quality control standards
2. Compressor shall be factory tested as a completely assembled, piped, and wired unit.
3. Capacity shall be ACFM (per CAGI) free air delivery at a discharge pressure of psig. Compressor shall be capable of continuous full flow operation 24hr. /day at rated capacity and pressure.
4. Motor voltage shall be 575V/3Phase/60Hz Control system voltage shall be 115V, 1 Phase, 60 Hz
5. Standard compressor package shall be suitable for use in a 40 degree F to 115 degree F ambient temperature range.
6. Each compressor shall include an integral refrigerated dryer with moisture separator and automatic condensate drain.
7. Cartridge style high efficiency air filter (1 Micron) with low pressure drop
8. Spin-on 10 Micron fluid filter
9. Quick fluid change system with drain hose for ease of maintenance
10. Side panel windows to view fluid level and test auto drain
11. Enclosure with lockable panels and high efficiency coolers with washable filter mat
12. Three stage internal (with its own CRN #) Separator System that combines centrifugal action with a 2 stage coalescing filter to reduce fluid carry over to 2 ppm or less.

13. Double flow cooling fan to increase flow while reducing overall power and sound levels.
14. Corrosion resistant stainless steel plate heat exchanger
15. Integrated Dryer c/w Energy Saving Control and Zero Loss electronic drain. Dryer design to be located in a separate cabinet so it is not exposed to pre heated Air from the compressor
16. Belt drive with automatic tensioning system to maintain proper belt tension at all times while maximizing energy efficiency and prolonging belt life. Belt tension to be verifiable through service window
17. Each compressor system to be factory filled with premium food grade oil

### **Compressor Airend**

18. Compressor shall be fitted with an air inlet filter rated at 1 micron or better to provide maximum protection to the airend. Filter shall utilize a pre-separation process to collect larger particles before air enters the filter element
19. Rotors –Airend rotors shall be capable of delivering pressured up to 200 psig. Rotors shall be precision-machined from cast iron. Airend drive shaft shall be tapered for easy removal of airend pulley. All cast parts shall be 100% inspected for compliance with design tolerances in accordance with ISO 9001: 2008 quality procedures.
20. Casing – Airend casting shall be cast iron construction.
21. Bearings – Airend rotors shall be supported on both ends by cylindrical roller bearings to carry radial loads. Angular contact ball bearings shall be installed on the discharge end of each rotor to carry thrust loads with minimal friction.

### **Controls**

22. Microprocessor controller for complete compressor protection.
23. Diagnostic software built into the standard controller capable of real time graphical representation of compressor status
24. Remote communication that interfaces that include RJ45 10/100MB Ethernet, I/O bus RS485 for communication with up to 6 input / output modules, USS interface for communications up to three frequency converters, plug in Profibus DP, Modbus RTU or TCP, DeviceNet, Profinet or other communication adapters, SD card slot for updates and data storage.
25. Built-in 2 unit lead/lag compressor sequencer programmed to communicate directly with the 2<sup>nd</sup> air compressor (equalize runtimes, extends maintenance, prevents unnecessary starts)
26. Backlit operator graphical display panel with LED indicators and tactile membrane keys to display and control compressor operations. Information shall be feature easy to ready plain-text display programmed for English display
27. Operator control panel must include security feature to prevent unauthorized access to programming and operational control
28. Real-time clock with back-up battery capable of holding memory not less than 5 years
29. Integrated squirrel cage fan designed for low noise and efficient cooling
30. Easy access cooler for simple cleaning
31. All routine preventative maintenance can be accomplished from one side of the package
32. Small footprint designed to optimize floor space (each unit shall incorporate compressor, refrigerated dryer, electric drain and air receiver self-contained as one unit)
33. Built-in moisture separator and electric drain

**Minimum Performance Requirements:**

34. Flow: 35 SCFM-FAD
35. Discharge Pressure: 160 PSIG
36. HP: 10 HP
37. Noise level not greater than 68 dBA
38. 72 gallon integral receiver and air dryer on each air compressor
39. 575/3/60 TEFC Premium Efficient Motor with reduced voltage starter
40. Multi-sided removable enclosure with sound attenuation and environmental containment pan to protect from oil leaks

**FINAL FILTRATION OF COMPRESSED AIR**

41. Supply and install a custom wall mounted duplex 3 stage air filtering station that incorporate the following protection. The class of air filters must be designed for laboratory compressor applications and meet the quality standards of ISO 8573.1:2010 for solid particulates, humidity and oil capture as detailed below

**1ST STAGE : Kaeser KPF particulate Filter or approved equivalent**

- \* Liquid removal 100% of water
- \* Max. Liquid Loading: 2,000 ppm w/w
- \* Solid particle Removal: Meets ISO Class 4
- \* Oil Carry-Over: Meets ISO Class 4 for aerosols
- \* pressure Drop: Dry: 1 psi; Wet: 2 psi

**2ND STAGE : Kaeser KOX Oil Removal extra Fine Filter or approved equivalent**

- \* Liquid removal 99.999+% of oil
- \* max. Liquid Loading: 100 ppm w/w
- \* Solid particle Removal: Meets ISO Class 1
- \* oil Carry-Over: Meets ISO Class 1 for aerosols
- \* pressure Drop: Dry: 2 psi; Wet: 6 psi

**3RD STAGE : Kaeser KVF Vapor Filter or approved equivalent**

- \* Liquid removal: 0%
- \* max. Liquid Loading: 0 ppm w/w
- \* Solid particle Removal: Meets ISO Class 2
- \* oil Carry-Over: Meets ISO Class 1 for vapor
- \* pressure Drop: Dry: 1 psi; Wet: N/A

42. Each stage of secondary filter must be equipped Zero loss electronic Drains (plumbed back to existing condensate management system)
43. In total the contractor shall supply and install **nine (9) Zero loss electronic drains** and all associated plumbing. (6 units installed on the six secondary filters, 1 unit installed on each compressor receiver and one unit installed on existing vertical receiver.
44. Each modular filter housing to include Delta P gauge faces that indicate filter loading and filter efficiency. Each filter housings to include a liquid level indicator for visual monitoring.
45. Filtration stations shall be configured with ability to bypass and isolate one set of filters for maintenance purposes so there is no interruption of filtered air

## **SERVICES TO BE PROVIDED**

46. Removal of old system
47. Installation of new systems (one compressor at a time)
48. Commissioning as per manufacture specifications (fully commission one unit before starting installation of 2<sup>nd</sup> unit)
49. On-site training of CFIA Maintenance personnel (classroom theory and hands on maintenance demonstrations) each with customized printed training reference materials
50. During the first year the contractor shall provide all labor and materials required for periodic maintenance checks as per manufacture requirements

## **SPARE PARTS**

51. One 20 liter pail of premium factory recommended food grade oil
52. Two spare sets of OEM drive belts
53. Two complete "OEM maintenance kits" that would include all required parts and materials required to honor the annual maintenance requirements of the extended 5 year warranty
54. Two complete changes of final air filters (2x3 filters) as detailed in items 43
55. Provide one hardcopy printed factory service manual along for each compressor and with one electronic version of the factory service manual (pdf)

## **WARRANTY**

56. Provide a 1 year all-inclusive warranty 12 months from date of final acceptance
57. Provide an extended 5 year warranty on Airend, Compressor drive motor, Microprocessor control system and Rotary screw compressor.
58. \*CFIA will be responsible to purchase future OEM maintenance kits for each compressor each year after the 1<sup>st</sup> year as per terms of the warranty agreement
59. Provide copy of written warranty upon completion of project
60. Timely delivery of repair parts – Due to the critical nature of these air compressors the OEM manufacture must guarantee during the extended 5 year warranty period if any parts are required for emergency breakdowns they will be ready to ship within one working day from receipt of order, OR THE PARTS ARE FREE. The local OEM representative will maintain stock of all regular consumable routine maintenance parts. The local service depot will be required to provide proof of shipping in the form of a tracking number for the courier or freight company contracted to deliver the parts.

## **TRAINED SERVICE TECHNICIANS AND LOCAL SERVICE DEPOT**

61. The successful bidder must have a team (more than one) of local trained service technicians available within 50 kms of this installation. It is imperative that the local service depot have the ability to dispatch trained service technicians 24/7/365 to respond to all service requests.
62. The successful bidder will be required to provide proof from the OEM manufacturer that the local service depot is authorized to sell and service the equipment furnished under this contract. The local service depot must have not less than 2 local competent service technicians knowledgeable and available to service all aspects of the equipment supplied under this contract.

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**ANNEX B**  
**BASIS OF PAYMENT**

Prices are firm, all inclusive in Canadian dollars. Transportation charges, Customs duties and Excise taxes are included, and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

**Pricing breakdown**

#	Description	Total
1	Lump sum price to supply and install qty of two (2) new packaged air compressor systems with all accessories, spare parts and extended warranty as per specification  Bidders Offer: _____ OEM: _____	\$
2	Trade-in allowance for 2 GA-11 VFD Atlas Copco air compressors (credit)	\$( )
3	Grand total includes, installation, commissioning, training, extended 5 year warranty and spare consumable parts	\$

Delivery and installation to be coordinated with CFIA Facility Manager

Equipment to be delivered, installed and fully commissioned on-site not greater than 10 weeks from receipt of order.

**BIDDERS BEST DELIVERY DATE:** \_\_\_\_\_

## ANNEX C

### INSURANCE REQUIREMENTS

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.

2. The Commercial General Liability policy must include the following:

(a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.

(b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.

(c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.

(d) Personal Injury: While not limited to, the coverage must include Violation of Privacy; Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.

(e) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

(f) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.

(g) Employees and, if applicable, Volunteers must be included as Additional Insured.

(h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)

(i) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.

(j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.

(k) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.

(l) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.

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For the province of Quebec, send to:

Director Business Law Directorate,  
Quebec Regional Office (Ottawa),  
Department of Justice,  
284 Wellington Street, Room SAT-6042,  
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,  
Civil Litigation Section,  
Department of Justice  
234 Wellington Street, East Tower  
Ottawa, Ontario K1A 0H8

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(S) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

## ANNEX D

### MANDATORY REQUIREMENTS AND BASIS OF SELECTION

#### MANDATORY REQUIREMENTS

Each bidder shall submit this form with their bid for the purposes of verifying the equipment and equipment they are supplying complies with the specification requirements. (check applicable box)

Reference #	Description	Yes	No
2	Compressor shall be manufactured under strict ISO 9001:2008 quality control standards		
3	Compressor shall be factory tested as a completely assembled, piped, and wired unit.		
5	Motor voltage shall be 575V/3Phase/60Hz Control system voltage shall be 115V, 1 Phase, 60 Hz		
6	Standard compressor package shall be suitable for use in a 40 degree F to 115 degree F ambient temperature range		
7	Each Compressor shall include an integral refrigerated dryer with moisture separator and automatic condensate drain. Dryer to be mounted in a separate compartment so that it is not influenced by heat generated from the compressor.		
13	Three stage (CRN ) Internal Separator System that combines centrifugal action with a 2 stage coalescing filter to reduce fluid carry over to 2 ppm or less		
14	Cooling fan to increase flow while reducing overall power and sound levels		
15	Corrosion resistant stainless steel plate heat exchanger		
17	Belt drive with automatic tensioning system to maintain proper belt tension at all times while maximizing energy efficiency and prolonging belt life		
18	Each compressor system to be factory filled with premium food grade oil		
19	Compressor shall be fitted with an air inlet filter rated at 1 micron or better to provide maximum protection to the airend.		
20	Rotors –Airend rotors shall be capable of delivering pressures up to 160 psig. Rotors shall be precision-machined from cast iron. Airend drive shaft shall be tapered for easy removal of airend pulley. All cast parts shall be 100% inspected for compliance with design tolerances in accordance with ISO 9001: 2008 quality procedures		
21	Casing – Airend casting shall be cast iron construction		
22	Bearings – Airend rotors shall be supported on both ends by cylindrical roller bearings to carry radial loads. Angular contact ball bearings shall be installed on the discharge end of each rotor to carry thrust loads with minimal friction.		
23	Microprocessor controller for complete compressor protection that provides build-in security access to prevent unauthorized access		
24	Diagnostic software built into the standard controller capable of real time graphical representation of compressor status		
25	Remote communication that interfaces that include RJ45 10/100MB Ethernet, I/O bus RS485 for communication with up to 6 input / output modules, USS interface for communications up to three frequency converters, plug in Profibus DP, Modbus RTU or TCP, DeviceNet, Profinet or other communication adapters, SD card slot for updates and data storage		

26	Built-in 2 unit lead/lag compressor sequencer programmed to communicate directly with the 2 <sup>nd</sup> air compressor (equalize runtimes, extends maintenance, prevents unnecessary starts)		
32	All routine preventative maintenance can be accomplished from one side of the package		
58	5 year extended warranty on the air end, separator tank, oil cooler, after cooler and motor		
33	Small footprint designed to optimize floor space (each unit shall incorporate compressor, refrigerated dryer, electric drain and air receiver self-contained as one unit) Both compressor systems must fit within the confines of the existing housekeeping pad and allow sufficient space for maintenance		
40	575/3/60 TEFC Premium Efficient Motor with reduced voltage starter		
41	Multi sided enclosure for sound attenuation with environmental containment pan to prevent oil leaks		
42	Supply and install a custom wall mounted duplex 3 stage air filtering station as per specifications. Each station to include valves for isolation and bypass.		
43	Each stage of secondary filter must be equipped with Zero loss Electronic Drains (plumbed back to existing condensate management system)		
46	Filtration station shall be configured with ability to bypass and isolate one set of filters for maintenance purposes so there is no interruption of filtered air		
45	Each modular filter housing to include Delta P gauge faces that indicate filter loading and filter efficiency. Filter housings to include a liquid level indicator for visual monitoring.		
57	Provide a 1 year all-inclusive warranty 12 months from date of final acceptance (all parts and labour)		
58	Provide a written extended 5 year warranty on Airend, Compressor drive motor, Microprocessor control system and Rotary screw compressor.		
61	Timely delivery of repair parts – Due to previous experiences and nature of these mission critical air compressors the OEM manufacture must guarantee during the extended 5 year warranty period if any parts are required for emergency breakdowns or regular maintenance they will be ready to ship within one working day from receipt of order, OR THE PARTS ARE FREE. The local OEM representative will maintain stock of all regular consumable routine maintenance parts. The local service depot will be required to provide proof of shipping in the form of a tracking number for the courier or freight company contracted to deliver the parts.		
62	Multiple local trained service technicians stationed within 50 km on installation site		
63	Provide proof from the OEM manufacturer that the local service depot is authorized to sell and service the equipment furnished under this contract		

## BASIS OF SELECTION

A bid must comply with the requirements of the bid solicitation and meet all mandatory technical evaluation criteria to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

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**ANNEX "E"**  
**INFORMATION FOR CODE OF CONDUCT CERTIFICATION**

***[MUST BE COMPLETED BY OFFEROR/BIDDER WITH BID SUBMISSION]***

Please provide list of names of the following entities, according to the ownership nature of the company

1. For a Corporation - each current member of the Bidder's Board of Directors;

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2. For a Sole Proprietorship or an individual doing business under a firm name - the name of the sole proprietor or individual;

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3. For a Joint Venture - the names of all current members of the Joint venture;

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4. For an individual - the full name of the person;

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