



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada  
Room 100,  
167 Lombard Ave.  
Winnipeg  
Manitoba  
R3B 0T6  
Bid Fax: (204) 983-0338

## REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

### Proposal To: Public Works and Government Services Canada

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

### Proposition aux: Travaux Publics et Services Gouvernementaux Canada

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

### Comments - Commentaires

### Vendor/Firm Name and Address

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

### Issuing Office - Bureau de distribution

Public Works and Government Services Canada - Western  
Region  
Room 100  
167 Lombard Ave.  
Winnipeg  
Manitoba  
R3B 0T6

<b>Title - Sujet</b> Air Purifier	
<b>Solicitation No. - N° de l'invitation</b> ET025-180545/A	<b>Date</b> 2018-01-05
<b>Client Reference No. - N° de référence du client</b> PHAC-ET025-180545	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$WPG-016-10431	
<b>File No. - N° de dossier</b> WPG-7-40127 (016)	<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 2018-02-16</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Central Standard Time CST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Hall, Marlene	<b>Buyer Id - Id de l'acheteur</b> wpg016
<b>Telephone No. - N° de téléphone</b> (204) 230-0147 ( )	<b>FAX No. - N° de FAX</b> (204) 983-7796
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF PUBLIC WORKS AND GOVERNMENT SERVICES CANADA 100-167 LOMBARD AVE PO BOX 1408 WINNIPEG Manitoba R3C 2Z1 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Requirement**

The requirement is detailed under Article 6.2 of the resulting contract clauses.

### **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 from 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 North American Free Trade Agreement (NAFTA) and the Canadian Free Trade Agreement (CFTA).

## **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](#) (2017-04-27) 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 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than 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.

## 2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Manitoba.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

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

Section I: Technical Bid (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.

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**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.

**3.1.1 Electronic Payment of Invoices – Bid**

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

If Annex “C” 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 and Bruce Haugh, Stantec Consulting Ltd, will evaluate the bids.

**4.1.1 Technical Evaluation****4.1.1.1 Mandatory Technical Criteria**

Bidder is requested to submit certifications, declarations and/or proof documents that substantiate information as part of their bid. If these documents are not provided at bid closing, the Contracting Authority will notify the Bidder that they have 2 business days to provide the requested documents. Failure to do so, and the Bidder will be deemed non-responsive and given no further consideration.

- (a) Bidder must demonstrate that it has been in business for a minimum of 3 (three) years as of the date of bid closing. At a minimum, the Bidder must provide:
  - 1. Copy of business name registration certification; or
  - 2. Copy of provincial or territorial business corporation registration certificate; or
  - 3. Copy of federal business incorporation registration certificate.

- (b) Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, certified technicians will be available to perform the Work as detailed in Annex A, Requirement.

Signature (certification) \_\_\_\_\_ Date \_\_\_\_\_

#### 4.1.2 Financial Evaluation

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

#### 4.2 Basis of Selection

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

### 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 Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

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

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

##### 5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-) (<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](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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

## **PART 6 - RESULTING CONTRACT CLAUSES**

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

### **6.1 Security Requirements**

**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 to February 28, 2019 inclusive.

#### **6.4.2 Delivery Date**

All the deliverables must be received on or before dates specified at Annex A and Annex B.

#### **6.4.3 Delivery Points**

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

## 6.5 Authorities

### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Marlene Hall  
Procurement Specialist  
Public Works and Government Services Canada  
Acquisitions and Compensation Branch  
100 - 167 Lombard Avenue  
Winnipeg, MB. R3B 0T6

Telephone: 204 230-0147  
Fax: 204 983-7796  
Email: [marlene.hall@pwgsc-tpsgc.gc.ca](mailto:marlene.hall@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.

### 6.5.2 Project Authority

The Project Authority for the Contract is: *A contact to be named at date of contract issuance*

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

### 6.5.3 Contractor's Representative

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
Email: \_\_\_\_\_



## **6.6 Payment**

### **6.6.1 Basis of Payment**

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

### **6.6.2 Multiple Payments**

H1001C (2008-05-12), Multiple Payments

### **6.6.3 SACC Manual Clauses**

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

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

### **6.6.4 Shipping Instructions – Free on board Destination and Delivered Duty Paid**

FOB Destination Public Health Agency of Canada warehouse, Winnipeg, Manitoba including all delivery charges and customs duties and Applicable Taxes.

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

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

TBD

### **6.6.6 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.

## **6.7 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:
  - 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.

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## 6.8 Certifications and Additional Information

### 6.8.1 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.

## 6.9 Applicable Laws

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

## 6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2016-04-04), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*).

## 6.11 SACC Manual Clauses

B1501C (2006-06-16), Electrical Equipment  
B7500C (2006-06-16), Excess Goods  
C5201C (2008-05-12) Prepaid Transportation Costs  
G1005C (2016-01-28) Insurance - No Specific Requirement

## **ANNEX "A"**

### **REQUIREMENT**

Public Services and Procurement Canada, Real Property Services, has a requirement for the manufacture, delivery and certification of 2 (two) air purifiers for the breathing air system.

Public Health Agency of Canada will be responsible for Installation.

#### **A. Reference attached Scope of Work:**

PWGSC Project No. R.078207.001  
Public Health Agency of Canada (PHAC)  
Replacement of Existing Breathing Air System Air Purifiers

#### **B. COMPLIANCE MATRIX – Minimum Mandatory Performance Specification**

A complete list of the mandatory performance specifications is detailed in the "Scope of Work" and "Compliance Matrix" under Annex A – Requirement. Bidders must review the Scope of Work in conjunction with the Compliance Matrix and provide the detailed documentation to support the specifications listed in the Compliance Matrix.

It is mandatory that Bidders demonstrate compliance with the mandatory performance specification outline below in the Compliance Matrix.

#### **Instructions:**

1. Bidders are to provide supporting technical documentation for the specifications detailed in the Scope of Work and Compliance Matrix, and cross-reference where the supporting documentation is found within the proposal to demonstrate compliance.
2. Supporting technical documentation, such as specification sheets, performance brochures, and photographs or illustrations should provide adequate detail to substantiate that the goods offered meet the technical requirements. It is the Bidders responsibility to ensure that the submitted technical documentation provides adequate detail to prove that the proposed product(s) meet the requirements of the technical specification. If specific published technical documentation is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.
3. If the complete specification and/or literature is not submitted at bid closing, the Contracting Authority will notify the Bidder that they have 2 business days to provide the requested documents. Failure to do so, and the Bidder will be deemed non-responsive and given no further consideration.
4. Canada will not evaluate information such as references to Web site addresses where additional information can be found.

5. Bidders must address any concerns with the Specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.
6. Failure to meet the minimum mandatory specifications will result in your proposal being deemed non-responsive, and be given no further consideration in the evaluation process.

**Compliance Matrix:**

<p><b><u>Completion and submission of Mandatory Performance Specification is required to be considered responsive and for your offer to be given further consideration.</u></b></p> <p>a. Bidder must cross reference where in their technical offer, the performance specification is located.</p> <p>b. Provide the specification being offered which meets or exceeds <u>and cross-reference as to where the supporting documentation is found within your proposal</u>. If there is insufficient space in the table, assign SIR # (Supplementary Information Reference) and provide the appropriate details on a separate page in your offer. Where published supporting documentation is not available in the form of brochures, technical data sheets etc., prepare a written narrative complete with a detailed explanation of how its offer demonstrates compliance.</p>		
<p><u>All work and materials herein specified must meet and maintain minimum Canadian and Provincial certification(s) and approval(s) as applicable by Industry Standards.</u></p>		
Item	Specifications	Bidder Response: indicate how they meet the specifications addressed below/ cross-reference where this technical specification is indicated in their bid documentation
1.	Each breathing air purifier must be self-contained, skid mounted, complete with automatic controls, and wiring, each sized for a minimum 188 L/s (398 cfm) air flow.	
2.	Each breathing air purifier must each include 40Ø (1-1/2") interconnecting piping, designed to CSAZ180.1-13.	
3.	Each breathing air purifier must each have electrical components prewired in a NEMA 4 electrical enclosure with numbered terminal strips, labelled electrical input terminals for 120/1/60 power supply. All electrical control panels must carry CSA special inspection certification for acceptance in all Canadian provinces.	

4.	Each breathing air purifier must have capacity to dry compressed air up to a maximum of 224 L/s (474 CFM) at 690 kPa (100 psig), to an atmospheric dew point of -40°C (-40°F), 1034 kPa (150 psi) maximum working pressure and maximum 37.8°C (100°F) saturated inlet air. Note: At 100 psig and 474 CFM is manufacturer's reference. At a system pressure of 120 psig, each air purifier must meet the required 398 CFM.	
5.	Each breathing air purifier must have an electrical supply of 120V, 1 PH, 60 HZ.	
6.	Each breathing air purifier must include desiccant chambers designed and manufactured to CSA B51 and ASME Section 8 Division 1, registered in the province of Manitoba, with 40Ø (1-1/2") inlet and outlet ports, separate desiccant fill and drain openings, including individual dual-scale chamber pressure gauge, pressure transmitter, and ASME certified safety valve.	
7.	Each breathing air purifier must include multi-bed Activated Carbon and Hopcalite filtration chamber for the removal of carbon monoxide and oil mist according to CSA Standard Z180.1 for Breathing Air, designed and manufactured to CSA B51 and ASME Section 8 Division 1, registered in the Province of Manitoba, with 50Ø (2") inlet and outlet ports, separate desiccant fill and drain openings, including a dual-scale chamber pressure gauge and ASME certified safety valve.	
8.	Each breathing air purifier must include an inlet coalescing pre-filter rated 0.01 µm separation and less than 0.1 mg/m <sup>3</sup> tested to ISO 8573-1 purity class 1/-0-1, with automatic drain and differential pressure gauge; must include cast aluminum construction to 2000 kPa (290 psig), with pressure drop new and wet at 690 kPa (100 psig) of less than 13.8 kPa (2 psid).	
9.	Each breathing air purifier must include outlet particle after-filter rated 1.0 µm separation and less than 0.5 mg/m <sup>3</sup> tested to ISO 8573-1 purity class 2/-2, with manual drain/vent valve and differential pressure gauge; must include cast aluminum construction to 290 psig, with pressure drop new at 100 psig, with pressure drop new and wet at 690 kPa (100 psig) of less than 3.1 kPa (0.45 psid).	

10.	Each breathing air purifier must be self-contained, factory pre-piped, prewired and tested, then shipped to site; must be complete with automatic controls for either fixed 10-minutes NEMA cycle or extended dew point-dependent 'Autodew' energy-saving cycling; must include a PLC logic controller inside a NEMA 4 electrical enclosure with identified terminal block for power, alarms, and component connection, CSA certified for electrical supply of 120/1/60.	
11.	Each breathing air purifier must have stainless steel pilot air control tubing and fitting throughout.	
12.	Each breathing air purifier must have controls and monitoring, including digital display Programmable Logic Controller for fully automatic operation; must include local alarms for "high humidity", "low dew point", "switching tower failure", common relay alarm dry contacts for remote monitoring.	
13.	Each breathing air purifier must have a carbon monoxide detector panel to monitor outlet air carbon monoxide sensing within the accepted guidelines and provide an alarm output warning should CO levels rise above 5 ppm. An audible alarm buzzer must be activated and a visual display of text on the dryer text display must appear. The common dry alarm contacts must include this condition.	
14.	The Supplier must provide one spare set of filter media a year after the original set are put in service, (ie fresh and not stored for a year) so they are fresh and not expired.	
15.	Start-up and commissioning will be witnessed by PHAC Representative and performed by the PHAC Breathing Air Standing Offer Contractor. The manufacturer must provide documentation that the equipment is acceptable and warranty can commence. The manufacturer must provide terms for a one year warranty.	
16.	Handling and storage must comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.	

17.	Each breathing air purifier must be able to be disassembled into components not to exceed 454 kg. (1,000 lbs.) and PHAC's 71" height and 32" wide limitations. All re-assembly will be by PHAC's Certified Technician.	
18.	The supplier/manufacturer must provide training to the operating staff (off site) in the operation and maintenance of the breathing air system and is to assist in the preparation of a monitoring and test log book.	
19.	Reports must be obtained from Departmental Representative and reviewed for conformance to manufacture's specifications and confirmation of acceptable operation for compliance with warranty conditions.	
20.	Shop Drawings: Shop drawings must be submitted to indicate equipment, dimensions, extent of equipment piping system, etc. a. Vertical and horizontal piping locations and elevations and connections details. b. Other details including: Valves and Breathing Air Purifiers.	
21.	Test Reports: Certified factory test reports must be submitted before shipment indicating compliance with specifications and standard for air quality (ISO 8573-1 Class 1 air).	
22.	Instructions: Manufacturer's installation instructions must be submitted.	
23.	Closeout Submittals: Maintenance and engineering data must be submitted for incorporation into O&M manual.	

**Section Numbers and Titles**

**DIVISION 00**

00 01 10 – Table of Contents .....1

**DIVISION 01    GENERAL REQUIREMENTS**

01 11 00 – Summary of Work .....1  
01 33 00 – Submittal Procedures.....3

**DIVISION 22    PLUMBING**

22 15 00.02 – Breathing Air Purifiers .....3



**1.1 PRECEDENCE**

- .1 Division 1 Sections take precedence over technical specification sections in other Specification Divisions.

**1.2 WORK COVERED BY CONTRACT DOCUMENTS**

- .1 Work of this Contract comprises the supply and shipping of breathing air purifiers.
- .2 Refer to Specification Sections for division of scope.

**1.3 DEFINITIONS**

- .1 The word "provide" means "supply and verify".
- .2 The term "Occupant" means the organization who is, or will be, occupying the building site.
- .3 The "Contractor" refers to a separate contractor engaged by PHAC to provide the installation of the equipment.

**1.4 WORK SEQUENCE**

- .1 Upon award of contract, the vendor will submit shop drawings for approval. Manufacture of the components will follow written approval of the shop drawings.
- .2 Air Purifiers to be delivered to the client-owned warehouse in Winnipeg.

**1.5 TIME OF COMPLETION**

- .1 Delivery of equipment to be executed within 16 weeks from the receipt of shop drawing approval. Commence planning and preparatory work immediately upon receipt of official notification of acceptance of Contract and complete the work within time stipulated in the Construction Tender.

**END OF SECTION**

**1.1 SECTION INCLUDES**

- .1 Shop drawings.
- .2 Product data, test reports, certificates.
- .3 Manufacturer's instructions and field reports.

**1.2 ADMINISTRATIVE**

- .1 Submit to Departmental Representative submittals listed for review. Submit shop drawings for approval within 2 weeks of contract award to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time and no claim for extension by reason of such default will be allowed.
- .2 Do not proceed with Work affected by submittal until review is complete.
- .3 Present shop drawings, product data in SI Metric units.
- .4 Where items or information is not produced in SI Metric units converted values are acceptable.
- .5 Submit air quality test report for approval prior to shipment of equipment.
- .6 Review submittals prior to submission to Departmental Representative. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been checked and coordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and considered rejected.
- .7 Notify Departmental Representative, in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.

**1.3 SHOP DRAWINGS AND PRODUCT DATA**

- .1 Shop drawings that do not include the stamp, date, and signature of the person responsible for reviewing the shop drawings, before submittal to the Departmental Representative, will be rejected and returned without being examined.
- .2 Submit shop drawings bearing stamp and signature of qualified professional engineer registered or licensed in Province of Manitoba, Canada where specifically requested in the specifications. Shop drawings not bearing the required Engineer's stamp will be rejected and returned without being examined.
- .3 Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design specifications.
- .4 Adjustments made on shop drawings by the Departmental Representative are not intended to change the Contract Price. If it is deemed that such adjustments affect the value of Work, state such in writing to the Departmental Representative prior to proceeding with fabrication or the Work.
- .5 Make changes in shop drawings that the Departmental Representative may require, consistent with Contract Documents. When resubmitting, notify the Departmental Representative in writing of any revisions other than those requested.

- .6 Accompany submissions with transmittal letter, containing:
  - .1 Date.
  - .2 Project title and number.
  - .3 Contractor's name and address.
  - .4 Identification and quantity of each shop drawing, product data, and samples.
  - .5 Other pertinent data.
- .7 Submissions include:
  - .1 Date and revision dates.
  - .2 Project title and number.
  - .3 Name and address of:
    - .1 Subcontractor.
    - .2 Supplier.
    - .3 Manufacturer.
  - .4 Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
  - .5 Details of appropriate portions of Work as applicable:
    - .1 Fabrication.
    - .2 Layout, showing dimensions, including identified field dimensions, and clearances.
    - .3 Setting or erection details.
    - .4 Capacities.
    - .5 Performance characteristics.
    - .6 Standards.
    - .7 Operating weight.
    - .8 Wiring diagrams.
    - .9 Single line and schematic diagrams.
    - .10 Relationship to adjacent work.
- .8 Submit one (1) digital file in Adobe PDF file format of the following submittals:
  - .1 Shop drawings for each requirement requested in specification sections and as the Departmental Representative may reasonably request.
  - .2 Product data sheets or brochures for requirements requested in specification Sections and as requested by Departmental Representative where shop drawings will not be prepared due to standardized manufacture of product.
  - .3 Test reports for requirements requested in specification Sections and as requested by Departmental Representative.
    - .1 Report signed by authorized official of testing laboratory that material, product or system identical to material, product or system to be provided has been tested in accord with specified requirements.
    - .2 Testing must have been within three years of date of contract award for project.
  - .4 Certificates for requirements requested in specification Sections and as requested by Departmental Representative.
    - .1 Statements printed on manufacturer's letterhead and signed by responsible officials of manufacturer of product, system or material attesting that product, system or material meets specification requirements.
    - .2 Certificates must be dated after award of project contract, complete with project name.
  - .5 Manufacturers' instructions for requirements requested in specification Sections and as requested by Departmental Representative.

- .1 Pre-printed material describing installation of product, system or material, including special notices and Material Safety Data Sheets concerning impedances, hazards and safety precautions.
- .6 Manufacturer's field reports for requirements requested in specification Sections and as requested by Departmental Representative.
  - .1 Documentation of the testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
- .9 Delete information not applicable to project.
- .10 Supplement standard information to provide details applicable to project.
- .11 If upon review by the Departmental Representative, no errors or omissions in compliance with the Contract Documents are discovered or if only minor corrections are made, copies will be returned and fabrication and installation of Work may proceed. If, however, shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through the same procedure indicated above, must be performed before fabrication and installation of Work may proceed.
- .12 No extension of Contract Time will be allow for delays in the Work which may be caused for Departmental Representative's rejection of shop drawings.
- .13 Shop drawings which contain deviations from the Contract Documents which are not presented to the Departmental Representative in writing, as specified in General Condition GC 3.10, will rejected and returned without being examined.
- .14 All data/drawings, reports, etc. must be reviewed by security and are not permitted to leave the facility.
- .15 All documents must be returned at the end of the project.

**END OF SECTION**

## **PART 1 General**

### **1.1 SUMMARY**

#### **.1 Section Includes:**

- .1 Materials and installation for piping, fittings, equipment used in compressed air systems.

### **1.2 REFERENCES**

#### **.1 American Society of Mechanical Engineers (ASME)**

- .1 ASME Boiler and Pressure Vessel Code Section VIII Pressure Vessels.
  - .1 BPVC-VIII B, BPVC Section VIII - Rules for Construction of Pressure Vessels Division 1.
  - .2 BPVC-VIII-2 B, BPVC Section VIII - Rules for Construction of Pressure Vessels Division 2 - Alternative Rules.
  - .3 BPVC-VIII-3 B, BPVC Section VIII - Rules for Construction of Pressure Vessels Division 3 - Alternative Rules High Press Vessels.

#### **.2 Canadian Standards Association (CSA International)**

- .1 CSA B51, Boiler, Pressure Vessel, and Pressure Piping Code.
- .2 CSA Z180.1-13, Compressed Breathing Air and Systems.

### **1.3 SUBMITTALS**

#### **.1 Shop Drawings:**

- .1 Submit shop drawings to indicate equipment, dimensions, extent of equipment piping system, etc.
  - .1 Vertical and horizontal piping locations and elevations and connections details.
  - .2 Other details including: Valves and Breathing Air Purifiers.
  - .3 Test Reports: submit certified factory test reports before shipment indicating compliance with specifications and standard for air quality (ISO 8573-1 Class 1 air).
  - .4 Instructions: submit manufacturer's installation instructions.
  - .5 Closeout Submittals: submit maintenance and engineering data for incorporation into O&M manual.

## **PART 2 Products**

### **2.1 BREATHING AIR PURIFIERS (2 UNITS)**

- .1 Self-contained, skid mounted, complete with automatic controls, and wiring, each sized for a minimum 188 L/s (398 cfm) air flow. 40Ø (1-1/2") interconnecting piping, designed to CSAZ180.1-13. Electrical components prewired in a NEMA 4 electrical enclosure with numbered terminal strips, labelled electrical input terminals for 120/1/60 power supply. All electrical control panels to carry CSA special inspection certification for acceptance in all Canadian provinces.
- .2 Capacity:
  - .1 To dry compressed air up to a maximum of 224 L/s (474 CFM) at 690 kPa (100 psig), to an atmospheric dew point of -40°C (-40°F), 1034 kPa (150 psi)

maximum working pressure and maximum 37.8°C (100°F) saturated inlet air.  
Note: At 100 psig and 474 CFM is manufacturer's reference. At a system pressure of 120 psig, each air purifier will meet the required 398 CFM.

- .3 Electrical supply: 120V, 1 PH, 60 Hz.
- .4 Components to be as follows:
  - .1 Desiccant chambers designed and manufactured to CSA B51 and ASME Section 8 Division 1, registered in the province of Manitoba, with 40Ø (1-1/2") inlet and outlet ports, separate desiccant fill and drain openings, including individual dual-scale chamber pressure gauge, pressure transmitter, and ASME certified safety valve.
  - .2 Multi-bed Activated Carbon and Hopcalite filtration chamber for the removal of carbon monoxide and oil mist according to CSA Standard Z180.1 for Breathing Air, designed and manufactured to CSA B51 and ASME Section 8 Division 1, registered in the Province of Manitoba, with 50Ø (2") inlet and outlet ports, separate desiccant fill and drain openings, including a dual-scale chamber pressure gauge and ASME certified safety valve.
  - .3 Inlet coalescing pre-filter rated 0.01 µm separation and less than 0.1 mg/m<sup>3</sup> tested to ISO 8573-1 purity class 1/-/0-1, with automatic drain and differential pressure gauge. Cast aluminum construction to 2000 kPa (290 psig), with pressure drop new and wet at 690 kPa (100 psig) of less than 13.8 kPa (2 psid).
  - .4 Outlet particle after-filter rated 1.0 µm separation and less than 0.5 mg/m<sup>3</sup> tested to ISO 8573-1 purity class 2/-/2, with manual drain/vent valve and differential pressure gauge. Cast aluminum construction to 290 psig, with pressure drop new at 100 psig, with pressure drop new and wet at 690 kPa (100 psig) of less than 3.1 kPa (0.45 psid).
  - .5 System shall be self-contained, factory pre-piped, prewired and tested, then shipped to site. Complete with automatic controls for either fixed 10-minutes NEMA cycle or extended dew point-dependent 'Autodew' energy-saving cycling. PLC logic controller inside a NEMA 4 electrical enclosure with identified terminal block for power, alarms, and component connection, CSA certified for electrical supply of 120/1/60.
  - .6 Stainless steel pilot air control tubing and fitting throughout.
  - .7 Controls and monitoring: Digital display Programmable Logic Controller for fully automatic operation. Local alarms for "high humidity", "low dew point", "switching tower failure", common relay alarm dry contacts for remote monitoring.
  - .8 Carbon monoxide detector panel to monitor outlet air carbon monoxide sensing within the accepted guidelines and provide an alarm output warning should CO levels rise above 5 ppm. An audible alarm buzzer shall be activated and a visual display of text on the dryer text display shall appear. The common dry alarm contacts shall include this condition.
  - .9 Supplier shall provide one spare set a year after the original set are put in service, (ie fresh and not stored for a year) so they are fresh and not expired. Start-up and commissioning shall be witnessed by PHAC Representative and performed by the PHAC Breathing Air Standing Offer Contractor. The manufacturer shall provide documentation that the equipment is acceptable and warranty can commence.
  - .10 Warranty: Provide terms for one year.

**PART 3        Execution**

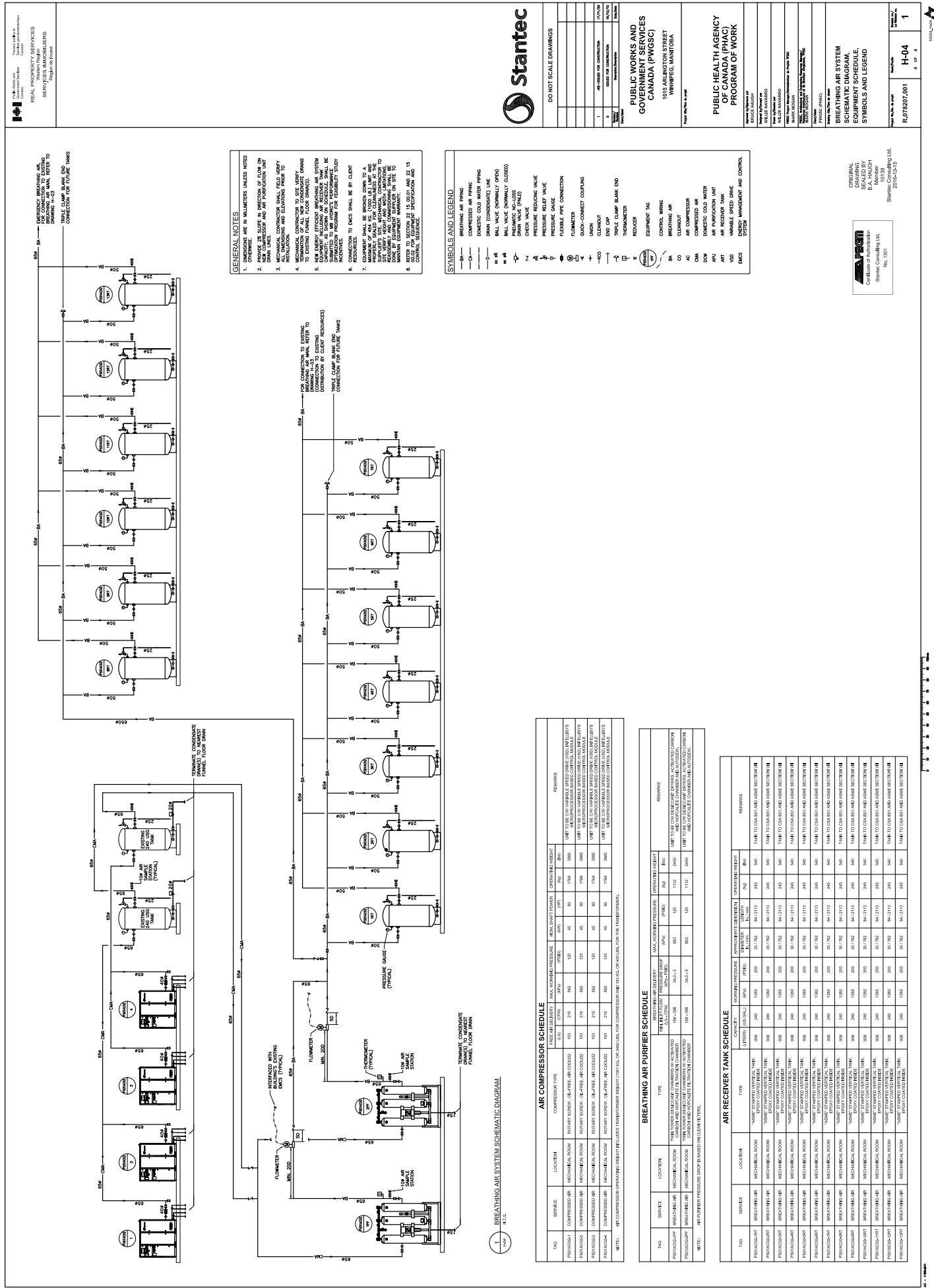
**3.1            MANUFACTURER'S INSTRUCTIONS**

- .1        Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling and storage instructions, and datasheet.

**3.2            FIELD QUALITY CONTROL**

- .1        Breathing air test and calibration:
  - .1        Departmental Representative shall coordinate commissioning and calibration of each unit after installation and test the quality of breathing air to the specified standards; per manufacturing instructions.
- .2        Supplier/Manufacturer's Field Services:
  - .1        Breathing air purifiers must be able to be disassembled into components not to exceed 454 kg. (1,000 lbs.) and PHAC's 71" height and 32" wide limitations. All re-assembly shall be by a Certified Technician to not void the warranty. The manufacturer shall provide documentation that the equipment is acceptable and warranty can commence. The supplier/manufacturer shall provide training to the operating staff (off site) in the operation and maintenance of the breathing air system and is to assist in the preparation of a monitoring and test log book.
  - .2        Schedule site visits to review work at stages listed:
    - .1        No site visits.
- .3        Obtain reports from Departmental Representative and review for conformance to manufacture's specifications and confirmation of acceptable operation for compliance with warranty conditions.

**END OF SECTION**





## ANNEX "B"

### BASIS OF PAYMENT

It is **MANDATORY** that Bidders submit firm prices/rates for the period of the proposed Contract for all items listed hereafter. **This section, when completed, will be considered as the Bidder's financial proposal.**

Bidders shall provide bids as per unit of issue requested. It is the responsibility of the bidder to provide conversion to the unit of issue requested. Failure to do so will render the bid non-responsive without further consideration.

Should there be an error in the extended pricing of the bidder's proposal, the unit pricing shall prevail and the extended pricing shall be corrected in the evaluation. Any errors in the quantities of the Bidder's proposal shall be changed to reflect the quantities stated in the RFP.

Prices quoted must remain firm for the period of the Contract. Prices **MUST** include ALL costs associated with providing the work in accordance with the Requirement, Annex A attached herein. GST, if applicable, is to be shown as a separate item on any resulting invoice. Payment will be made in accordance with the following pricing.

**FOB Destination:** Public Health Agency of Canada  
TBD  
Winnipeg, Manitoba  
Canada

Pricing must be in Canadian funds

**TABLE 1: AIR PURIFIERS – Delivery of equipment to be executed within 16 weeks from the receipt of shop drawing approval.**

Firm Unit Pricing

Item	Description	Qty	Unit of Issue	Unit Price	Extended Price
1	<b>Air Purifiers</b> in accordance with the mandatory performance specifications detailed in Annex A – Requirement.  <b>Model Number:</b> _____	2	each	\$	\$
2.	<b>Delivery charges</b> , including freight and offloading charges, FOB Destination to PHAC Winnipeg, MB.	1	each	\$	\$

Solicitation No. - N° de l'invitation  
ET025-180545/A  
Client Ref. No. - N° de réf. du client  
ET025-180545

Amd. No. - N° de la modif.  
File No. - N° du dossier  
WPG-7-40127

Buyer ID - Id de l'acheteur  
wpg016  
CCC No./N° CCC - FMS No./N° VME

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**TABLE 2: WARRANTY, TRAINING – delivery must be on or before November 30, 2018**

Firm Unit Pricing

Item	Description	Qty	Unit of Issue	Unit Price	Extended Price
3.	<b>Warranty</b> in accordance with the mandatory performance specification detailed in Annex A, Requirement.	2	each	\$	\$
4.	<b>Off-site Training</b> in accordance with the mandatory performance specification detailed in Annex A, Requirement.  All-inclusive lot price.	1	each	\$	\$

Solicitation No. - N° de l'invitation  
ET025-180545/A  
Client Ref. No. - N° de réf. du client  
ET025-180545

Amd. No. - N° de la modif.  
File No. - N° du dossier  
WPG-7-40127

Buyer ID - Id de l'acheteur  
wpg016  
CCC No./N° CCC - FMS No./N° VME

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

### **ELECTRONIC PAYMENT INSTRUMENTS**

*As indicated in Part 3, clause 3.1.2, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.*

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

- ( ) Direct Deposit (Domestic and International);
- ( ) Electronic Data Interchange (EDI);