

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St./ 11 rue, Laurier
Place du Portage, Phase III
Core 0A1 / Noyau 0A1
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

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

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

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

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

Comments - Commentaires

Title - Sujet GASES	
Solicitation No. - N° de l'invitation K8A21-130072/A	Date 2014-01-06
Client Reference No. - N° de référence du client K8A21-130072	
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-926-64333	
File No. - N° de dossier pv926.K8A21-130072	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-02-17	
Time Zone Fuseau horaire Eastern Standard Time EST	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Buller, Julie	Buyer Id - Id de l'acheteur pv926
Telephone No. - N° de téléphone (819) 956-7365 ()	FAX No. - N° de FAX (819) 956-3814
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF THE ENVIRONMENT AIR QUALITY RESEARCH 335 RIVER RD DAVID BUOTE SCIENCE & TECHNOLOGY OTTAWA Ontario K1A0H3 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

Scientific, Medical and Photographic Division / Division de
l'équipement scientifique, des produits photographiques et
pharmaceutiques
11 Laurier St./ 11 rue, Laurier
6B1, Place du Portage
Gatineau, Québec K1A 0S5

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

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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

Environment Canada has a requirement for the supply and delivery of various gases on an as and when required basis in accordance with the mandatory specifications detailed in Annex "A".

Option to extend

This requirement includes the option to extend the Contract for two (2) additional one (1) year periods.

3. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: sixty (60) days
Insert: ninety (90) days

1.1 SACC Manual Clauses

B1000T Condition of Material 2007-11-30

2. Submission of Bids

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

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the province of Ontario, Canada.

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

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (three (3) copies)
 Section II: Financial Bid (one (1) copy)
 Section III: Certifications (one (1) copy)

If there is a discrepancy between the wording of the soft copy and hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

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

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process Policy on Green Procurement.

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders are encouraged to:

- 1) use 8.5 x 11 inches (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and/or 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.

1.2 Section II: Financial Bid

Bidders must quote firm unit prices for all items and must provide the information that is required in Annex B. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, as applicable.

Bidders must submit a firm unit price Delivered Duty Paid (DDP) destination Incoterms 2000; Canadian customs duties and excise taxes included, as applicable; and GST or HST excluded, if applicable.

1.2.1 Exchange Rate Fluctuation

C3011T

Exchange Rate Fluctuation

2010-01-11

1.3 Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

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

1.1 Technical Evaluation

All proposals submitted must be completed in full and provide all of the information requested in the Request for Proposal (RFP) package to enable a full and complete evaluation. If the requirement is not addressed in the bidder's proposal, the proposal will be considered incomplete or non-responsive and will be rejected. The onus is on the Bidder to provide all the information necessary to ensure a complete and accurate assessment.

Factors for Evaluation

- 1. **PRICING BASIS (MANDATORY):** Prices must be firm, DDP (Delivered Duty Paid) Incoterm 2000 Ottawa, Ontario.
- 2. **ABILITY TO MEET THE TECHNICAL REQUIREMENT (MANDATORY):**

See Annex "A"
- 3. **COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS REQUEST FOR PROPOSAL (MANDATORY)**
- 4. **FOR CANADIAN SUPPLIERS ONLY:** Please note that the requirements of the Federal Contractors Program for Employment Equity may apply - see herein. (MANDATORY if applicable)

1.1.1 Mandatory Technical Criteria

See Annex "A"

1.2 Financial Evaluation

The lowest evaluated price will be established using the following criteria:

- a) prices will be evaluated in Canadian Funds including any applicable Taxes and Canadian Customs Duty (if applicable) and excluding the Goods and Services Tax (GST) or Harmonized Sales Tax (HST). For evaluation purposes, bids received in a foreign currency will be converted to Canadian funds using the appropriate rate of exchange using the rate quoted by the Bank of Canada as being in effect on date of bid closing.

- b) prices will be evaluated DDP (Ottawa, Ontario) Incoterms 2000.

2. 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 for the various gases will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default, if any certification made by the Bidder is found to be untrue whether during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify bidders' certifications. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

- 1.1.1 By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2004. The related documentation therein required will assist Canada in confirming that the certifications are true.

2. Additional Certifications Required with the Bid

Bidders must submit the following duly completed certifications with their bid.

2.1 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 (<http://www.hrsdc.gc.ca/eng/labour/index.shtml>) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website.

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

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

Environment Canada (EC) has a requirement for the supply and delivery of various gases on an as and when required basis in accordance with the mandatory specifications detailed in Annex "A".

3. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the *Standard Acquisition Clauses and Conditions Manual* (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

3.1 General Conditions

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

4. Requisition on Contract (ROC)

(a) **Purpose of ROC:** Goods to be provided under the Contract on as an-and-when-requested basis will be ordered by Canada using a Requisition on Contract ("ROC").

(b) **Process for Issuing a ROC:**

1. Authorized ROCs against this Contract will be made using a duly completed form identified in Annex C by methods such as facsimile and electronic mail.

2. A ROC will be prepared by the Project Authority and sent to the Contractor.

3. The ROC will be processed in accordance with and contain the information listed in Annex A. The ROC will also include the basis of payment as specified in the Contract

(c) **Authority to Issue a ROC:** Any ROC with a value less than or equal to \$40,000.00 (including GST/HST) may be issued by the Project Authority. Any ROC with a value greater than this amount must be issued directly by the Contracting Authority. By providing written notice to the Contractor, the Contracting Authority may suspend the Project Authority's authority to issue ROCs at any time.

(d) **Contents of a ROC:** The ROC must contain the following information, if applicable:

- (i) a ROC number;
- (ii) the details of any financial coding to be used;

- (iii) quantity and description of goods being ordered;
- (vi) the delivery date(s);
- (viii) the specific delivery location;
- (x) the firm unit price payable to the Contractor and

(e) **Charges for Goods under a ROC:** The Contractor must not charge Canada anything more than the price set out in the ROC unless Canada has issued a ROC amendment authorizing the increased expenditure. 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 being incorporated into the Work.

(f) **Delivery response time for a ROC -**

Delivery ordered through a ROC is required within 15 business days from receipt of an approved ROC. Shipping is Delivery Duty Paid (DDP) Destination Incoterms 2000. The Destination will be identified in the ROC.

5. Term of Contract

5.1 Period of the Contract

The period for issuing a Requisition on Contract against the Contract is for a period of one year *from the date of contract award*.

5.2 Extension of the Contract

If the Contract is authorized for use beyond the initial period, the Contractor offers to extend its bid for up to two (2) additional one (1) year periods, under the same conditions and at the rates or prices specified in the Contract.

The Contractor will be advised of the decision to authorize the use of the Contract for an extended period by the Contracting Authority ten (10) days before the expiry date of the Contract. A contract amendment will be issued by the Contracting Authority.

6. Authorities

6.1 Contracting Authority

The Contracting Authority for the Contract is:
 Julie Buller
 Public Works and Government Services Canada
 Acquisitions Branch
 Commercial Consumer Products Directorate
 11 Laurier Street, 6A2, Phase III

Place du Portage, Hull, Quebec, K1A 0S5

Telephone: (819) 956-7365

Facsimile: (819) 956-3814

E-mail address: julie.buller@pwgsc.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.

6.2 Project Authority (to be filled in only at contract award)

The Project Authority for the Contract is:

Name: _____

Telephone: (____) _____

Facsimile: (____) _____

E-mail address: _____

The Project Authority named above 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.

6.3 Contractor's Representative (to be filled in only at contract award)

The telephone number of the person responsible for:

General enquiries

Name: _____

Telephone No. _____

Facsimile No. _____

E-mail address: _____

Delivery Follow-up

Name: _____

Telephone No. _____

Facsimile No. _____

E-mail address: _____

7. Identified Users

The Identified User authorized to make ROC's against the Contract is:
Environment Canada, Science & Technology, Air Quality Research

8. Payment

8.1 Basis of Payment - Firm Price - Individual Requisition on Contracts

In consideration of the Contractor satisfactorily completing all of its obligations under the Requisition on Contract (ROC), the Contractor will be paid the firm prices in accordance with the Basis of Payment in Annex B, as specified in the Contract. Customs duties are included, and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

8.2 Limitation of Expenditure - Cumulative Total of all Requisition on Contracts

1. Canada's total liability to the Contractor under the Contract for all authorized Requisition on Contracts (ROCs), inclusive of any revisions, must not exceed the sum of \$ (to be added at Contract award). Customs duties are included and the Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.
2. No increase in the total liability of Canada will be authorized or paid to the Contractor unless an increase has been approved, in writing, by the Contracting Authority.
3. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
 - (a) when it is 75 percent committed, or
 - (b) four (4) months before the contract expiry date, whichever comes first.
4. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority, a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

8.3 SACC Manual Clauses

H1001C

Multiple Payments

2008-05-12

9. Periodic Usage Report - Contract with Requisition on Contract (ROC)

The Contractor must compile and maintain records on its provision of work to the federal government under authorized Requisition on Contracts issued under the Contract.

The Contractor must provide this data in accordance with the reporting requirements detailed below. If some data is not available, the reason must be indicated. If work is not provided during a given period, the Contractor must still provide a "NIL" report.

The data must be submitted on a quarterly basis to the Contracting Authority.

The data must be submitted to the Contracting Authority no later than ten (10) calendar days after the end of the reporting period.

Reporting Requirement- Details

A detailed and current record of all authorized work must be kept for each contract with a Requisition on Contract process. This record must contain:

For each authorized ROC:

- (i) the authorized ROC number or ROC revision number(s);
- (ii) a title or a brief description of each authorized ROC;
- (iii) the total estimated cost specified in the authorized ROC of each work, GST or HST extra;
- (iv) the start and completion date for each authorized ROC; and
- (v) the active status of each authorized ROC, as applicable.

For all authorized ROC:

- (i) the amount (GST or HST extra) specified in the contract (as last amended, as applicable) as Canada's total liability to the contractor for all authorized ROCs; and
- (ii) the total amount, GST or HST extra, expended to date against all authorized ROCs.

10. 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.

Environment Canada
 Science & Technology
 Air Quality Research
 335 River Road
 Ottawa, ON K1A 0H3

- (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

11. Certifications

11.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

12. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the province of Ontario, Canada.

13. Priority of Documents

If there is a discrepancy between the wordings 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 (2013-04-25) General Conditions - Goods (Medium Complexity);
- (c) Annex A, Mandatory Specifications;
- (d) Annex B, Requirement;
- (e) Annex C, Requisition on Contract (ROC) Sample;
- (f) Annex D, Periodic Usage Report;
- (g) the Contractor's bid dated _____ (insert date of bid).

14. SACC Manual Clauses

B7500C	Excess Goods	2006-06-16
B1505C	Shipment of Hazardous Products	2006-06-16
D3015C	Dangerous Goods/Hazardous Products	2007-11-30
G1005C	Insurance	2008-05-12

15. Shipping Instructions - Delivery at Destination

1. Goods must be consigned to the destination specified in the Contract and delivered:

Delivered Duty Paid (DDP) Ottawa, ON Destination, Incoterms 2000 for shipments from a commercial contractor.

2. The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.
3. The Contractor must have the ability to respond to occasional emergency deliveries at short notice.

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ANNEX A MANDATORY SPECIFICATIONS

The following applies to the requirement and must be provided by the Contractor.

The supplied gases must meet all concentration and ranges of the requirements defined below. Gases not meeting all Mandatory Specifications will be considered non-compliant.

Compliance Acknowledgement: *(Bidder to complete)*

I, the Bidder, certify that proposed gases will be in compliance with all requirements listed below.

Signed: _____

Date: _____

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ANNEX B REQUIREMENT

In order to be considered compliant bidder **MUST** enter pricing for **all items** including the option periods.

The estimated quantities provided are only an approximation of the requirement given in good faith. Estimated quantities for some gases was not possible at this time and are indicated with TBD (To Be Determined).

ANNEX "C" - REQUISITION ON CONTRACT

(Note: Will be applicable during the contract period)

REQUISITION ON CONTRACT (ROC) SAMPLE	
1. CONDITIONS	
ALL INVOICES, SHIPPING BILLS, AND PACKING SLIPS MUST SHOW THE FOLLOWING AGREEMENT REFERENCE NUMBERS:	
CONTRACT NUMBER :	ROC NUMBER :
TO: Contractor: Address:	DELIVERY DATE: BALANCE LEFT ON CONTRACT PRIOR TO THIS ROC (GST/HST included): VALUE OF THIS REQUISITION ON CONTRACT (ROC) (GST/HST included): BALANCE REMAINING ON THE CONTRACT (GST/HST included):

2. REQUIREMENT				
2.1 FOR THE SUPPLY OF EQUIPMENT, : The Contractor shall be paid firm unit prices in Canadian dollars, DDP Delivered Duty Paid (destination) Incoterms 2000, with the Goods and Services Tax (GST) and/or the Harmonized Sales Tax (HST) extra, as applicable. Freight charges to destination and all applicable Custom duties and Excise taxes must be included.				
Item #	Item Description	Quantity	Firm Unit Price (as per Contract)	Total
				\$
				\$
				\$
				\$
Total cost of items				\$
Rush Shipping cost				\$
GST/HST				\$
Total cost including GST/HST				\$
DELIVERY DESTINATION(S) Delivery Duty Paid (destination) Incoterms 2000:				
The Contractor shall not charge Canada for any costs exceeding this total price.				
3. APPROVALS				
Project/Technical Authority:		Administrative Authority (Procurement):		Contracting Authority at PWGSC (For any ROC over \$40,000):
Name:		Name:		Name:
Signature:		Signature:		Signature:
Date:		Date:		Date:

ANNEX D PERIODIC USAGE REPORT

Instructions for submission of Requisition on Contracts usage data. The Contractor must e-mail the information identified below in an electronic spreadsheet in the format below, to the Contracting Authority identified herein.

The report must include as a minimum the following:

- The contract number for which the data is submitted;
- The period for which the data has been accumulated (start date to end date);
- The start date and end date for the contract;
- Item description;
- Quantity ordered, Unit price;
- Value of individual ROCs; and
- The total spend per reporting period by EC.

Contract	(Insert Contract #)	Start Date of Contract (DD/MM/YYYY)	End Date of Contract (DD/MM/YYYY)
Total Value to Date (\$)	Total Value for Reporting Period (\$)	Start Reporting Period (DD/MM/YYYY)	End Reporting Period (DD/MM/YYYY)
ROC Number	Item Description	Firm Unit Price, Quantity Ordered	Date of Delivery / Value of Order (not including GST/HST, if applicable)

Department	Total Number of all ROCs during reporting period	Total Number of all ROCs to date.	Total Dollar Value (\$) of all ROCs during reporting period.	Total Dollar Value (\$\$) of all ROCs to date

TARGET CONCENTRATIONS WITH PREP TOLERANCES

The following tables indicate the gas mixture concentration required for each gas analyzer range. There is a suggested nominal concentration to order. That value is our targeted value. The minimum and maximum column indicates the range we will accept.

2 gases mixture				
	Analyzer range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO in N2	10	6.52	8.15	9.77
	30	23.90	26.65	29.00
	100	80.13	90 ppm	95.00
	300	240.60	265 ppm	285.00
	1000	789.00	890 ppm	950.00
	4000	3200.00	3850.00	4980.00

2 gases mixture				
	Analyzer range %	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO2 in N2	1%	0.78%	0.80%	98.00%
	2%	1.68%	1.80%	198.00%
	3%	2.51%	2.80%	298.00%
	5%	4.19%	4.50%	498.00%

2 gases mixture				
	Analyzer range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
Nox in N2	5	3.48	4	4.52
	10	8.5 ppm	8.00	9.50
	30	26 ppm	24.00	29.50
	100	85 ppm	80.10	98.50
	300	270 ppm	240.60	290.00
	1000	900 ppm	789.00	950.00

2 gases mixture				
	Analyzer range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
THC in Air order propane	10	2.60	2.7 ppm	2.90
	30	7.92	8 ppm	9.50
	100	26.28	28 ppm	30.00
	300	79.83	85 ppm	98.00
	1000	266.04	295 ppm	325.00

2 gases mixture				
	Analyzer range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
Ethanol in Air	100	77.26	88.00	98.74
	1000	746.30	850.00	953.70
Note: certified std prep tolerance 10%, Analytical accuracy 2%				

2 gases mixture				
	Analyzer range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
Ethane in Air	15	12.29	14.00	15.71
	100	76.39	87.00	97.61
Note: certified std prep tolerance 10%, Analytical accuracy 2%				

2 gases mixture				
	Analyzer range ppm	Min acceptable	Suggested nominal concentration to order	Max acceptable
Methane in Air	10	7.92	8 ppm	9.50
	30	26.28	28 ppm	30.00
	100	79.83	85 ppm	98.00

2 gases mixture				
	Analyzer range	Min acceptable	Suggested nominal concentration to order	Max acceptable
Oxygen in N2	5%	3.95	4.50	5.05
	9%	7.90	9.00	10.10
Note: certified std prep tolerance 10%, Analytical accuracy 2%				

5 gases mixture for bar 97 style gas analyzers				
	Analyzer range	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO2		4.39	5.00	5.61
CO		0.40	0.45	0.50
NO		245.84	280.00	314.16
C3H8		158.04	180.00	201.96
Balanced in Nitrogen -Oxygen free NIST traceable				

5 gases mixture for bar 97 style gas analyzers				
	Analyzer range	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO2		10.10	11.50	12.90
CO		7.02	8.00	8.98
NO		2546.20	2900.00	3253.80
C3H8		2546.20	2900.00	3253.80
Balanced in Nitrogen -Oxygen free NIST traceable				

5 gases mixture for bar 97 style gas analyzers				
	Analyzer range	Min acceptable	Suggested nominal concentration to order	Max acceptable
CO2		6.15	7.00	7.85
CO		3.95	4.50	5.05
NO		1580.40	1800.00	2019.60
C3H8		1668.20	1900.00	2131.80
Balanced in Nitrogen -Oxygen free NIST traceable				

Pipeline Natural Gas BTU Cert 200Z				
	Analyzer range	Min acceptable	Suggested nominal concentration to order	Max acceptable
Ethane		1.4231%	1.4260%	1.5717%
Propane		0.1238%	0.1250%	0.1263%
Isobutane		0.0109%	0.0110%	0.0111%
Butane		0.0129%	0.0130%	0.0131%
Isopentane		0.0040%	0.0040%	0.0040%
Pentane		0.0059%	0.0060%	0.0061%
Carbon Dioxide		0.4917%	0.5600%	0.6283%
Nitrogen		1.5936%	1.8150%	2.0364%
Oxygen		0.0088%	0.0100%	0.0112%
Hexane		0.0009%	0.0010%	0.0011%
Methane		95.0697%	96.0300%	96.9908%
		3.675%	3.971%	4.409%
		98.745%	100.001%	101.400%

Pure Gases
Annex B-1

Gas	Grade	Purity	Volume	Dimensions	Cylinder Quantity 2014	Estimate Quantities for Option Period 1 & 2	Product code	Unit Price/per cylinder	Option Period 1: Unit price/per cylinder	Option Period 2: Unit price/per cylinder
Air Ultra 0 size 50	UZ	99.9980%	8.8 m3	9" X 55"	60	160		\$	\$	\$
Nitrogen Alpha 1 (UHP)	UZ	99.9990%	8.43 M3	9" X 55"	25	60		\$	\$	\$
Oxygen	Extra Dry	99.6000%	9.60 M3	9" X 55"	20.00	60		\$	\$	\$
Propane	Instrument	99.5000%	20 Lbs	12" X 18"	2.00	5		\$	\$	\$
Helium	UPC	99.9995%	8.30 M3	9" X 55"	24.00	58		\$	\$	\$
Butane size 108	CP	99.0000%	70 lbs	9" X 55"	2.00	4		\$	\$	\$

Mix Gases

Annex B-2

Product Description	Mixture Preparation Tolerance Certified	Mixture Preparation Tolerance Certified Plus	Analytical Accuracy	Suggested nominal concentration to order	Min acceptable	Max acceptable	Volume	Size	Cylinder Dimensions	Estimated Cylinder Quantity Remaining 2014	Estimated Cylinder Quantity for Option Period 1 & 2	Product code	Unit Price/cylinder	Option Period 1: Unit price/cylinder	Option Period 2: Unit price/cylinder
(0.1 RANGE) 886.81 ppm Carbon Dioxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	900 ppm	0.08	0.098	209F13	200	9" X 51"	TBD	TBD		\$	\$	\$
(0.5% RANGE) 0.45% Carbon Dioxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	0.45%	0.40%	0.48	209F13	200	9" X 51"	TBD	TBD		\$	\$	\$
(1.0% RANGE) 0.80% Carbon Dioxide in Nitrogen - Certified	+/- 10%	+/- 2%	+/- 2%	0.80%	0.776%	0.88	209F13	200	9" X 51"	4	8.00		\$	\$	\$
(2.0% RANGE) 1.80% Carbon Dioxide in Nitrogen - Certified	+/- 10%	+/- 2%	+/- 2%	1.80%	1.68%	1.98	209F13	200	9" X 51"	6	12.00		\$	\$	\$
(3.0% RANGE) 2.8% Carbon Dioxide in Nitrogen - Certified	+/- 10%	+/- 2%	+/- 2%	2.80%	2.51%	2.98	209F13	200	9" X 51"	2	4.00		\$	\$	\$
(5.0% RANGE) 3.7% Carbon Dioxide in Nitrogen - Certified	+/- 10%	+/- 2%	+/- 2%	4.50%	4.19%	4.88	209F13	200	9" X 51"	2	4.00		\$	\$	\$
(30 RANGE) 23 ppm Carbon Monoxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	26 ppm	23.9	29	141 F13	152	8" X 48"	6	12.00		\$	\$	\$
(100 RANGE) 93 ppm Carbon Monoxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	90 ppm	80.13	95	141 F13	152	8" X 48"	6	12.00		\$	\$	\$
(300 RANGE) 265 ppm CO bal N2 Carbon Monoxide Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	265 ppm	240.6	285	141 F13	152	8" X 48"	2	4.00		\$	\$	\$
(1000 RANGE) 886.81 ppm Carbon Monoxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	890 ppm	789	950	141 F13	152	8" X 48"	2	4.00		\$	\$	\$
(2000 RANGE) 1780 ppm Carbon Monoxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	1850 ppm	1750	1950	141 F13	152	8" X 53"	1	2.00		\$	\$	\$
(4000 RANGE) 3780 ppm Carbon Monoxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	4000 ppm	3200	4980	141 F13	152	8" X 48"	1	2.00		\$	\$	\$
(10 PPM RANGE) 3 ppm Propane in Air Ultra Zero - Certified	+/- 20%	+/- 5%	+/- 5%	2.7 ppm	2.6	2.9	213 F13	200	9" X 51"	4	8.00		\$	\$	\$
(30 RANGE) 9 ppm Propane in Air Ultra Zero - Certified	+/- 20%	+/- 5%	+/- 5%	8 ppm	7.32	9.5	213 F13	200	9" X 51"	4	8.00		\$	\$	\$
(60 RANGE) 27.10 ppm Propane in Air Ultra Zero - Certified	+/- 20%	+/- 5%	+/- 5%	28 ppm	26.28	31.5	213 F13	200	9" X 51"	2	6.00		\$	\$	\$
(300 RANGE) 81.15 ppm Propane in Air Ultra Zero - Certified	+/- 20%	+/- 5%	+/- 5%	85 ppm	79.83	98	213 F13	200	9" X 51"	2	4.00		\$	\$	\$
(1000 RANGE) 295.60 ppm Propane in Air Ultra Zero - Certified	+/- 20%	+/- 5%	+/- 5%	295 ppm	286.04	325	213 F13	200	9" X 51"	0	1.00		\$	\$	\$

(5 RANGE) 4.5 ppm Nitric Oxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	4 ppm	3.98	4.95	141 F13	152							\$	\$	\$
(10 RANGE) 8.15 ppm Nitric Oxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	8.5 ppm	8	9.5	141 F13	152	8" X 48"	8					\$	\$	\$
(30 RANGE) 26.65ppm Nitric Oxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	26 ppm	24	29.5	141 F13	152	8" X 48"	8					\$	\$	\$
(100 RANGE) 89.05 ppm Nitric Oxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	85 ppm	80.1	98.5	141 F13	152	8" X 48"	6					\$	\$	\$
(300 RANGE) 287.38 ppm Nitric Oxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	270 ppm	240.6	280	141 F13	152	8" X 48"	4					\$	\$	\$
(1000 RANGE) 886.81 ppm Nitric Oxide in Nitrogen - Certified	+/- 20%	+/- 5%	+/- 5%	900 ppm	789	950	141 F13	152	8" X 48"	2					\$	\$	\$
Helium - Primary (P5) 5% Methane in Argon	+/- 1%	+/- 10%	+/- 5%				200F13	200	9" X 51"	30					\$	\$	\$
7.0 ppm CO; 18 ppm Propane; 0.5% CO2; bal Air - Certified	+/- 20%	+/- 5%	+/- 5%				6.37 W3	200	9" X 51"	2					\$	\$	\$
15 ppm CO2; 18 ppm CO; 15 PPM Propane; bal Air - Certified	+/- 20%	+/- 5%	+/- 5%				141 F13	152		1					\$	\$	\$
170.0 ppm CO, 65.0 ppm Propane;1.8% CO2; bal Air - Certified	+/- 20%	+/- 5%	+/- 5%				142 F13 141 F13	152		TBD 1					\$ \$	\$ \$	\$ \$
487 ppm CO, 90.0 ppm Propane;1.9% CO2; bal Air - Certified	+/- 20%	+/- 5%	+/- 5%				141 F13	152		2					\$	\$	\$
8900ppm CO (8019- 9800), BALANCE N2	+/- 10%	+/- 2%	+/- 2%	9000 ppm			141 F13	152		1					\$	\$	\$
8900 PPM CO2(8019- 9800), BALANCE N2	+/- 10%	+/- 2%	+/- 2%	9000 ppm			209F13	200		TBD					\$	\$	\$
8900PPM NO(8019- 9800), BALANCE N2	+/- 10%	+/- 2%	+/- 2%	9000 ppm			141 F13	152		TBD					\$	\$	\$
(10 PPM RANGE) 8 ppm Methane In Air Ultra Zero - Certified							33AL	7" x 21"		2					\$	\$	\$
(30 PPM RANGE) 28 ppm Methane In Air Ultra Zero - Certified							33AL	7" x 21"		TBD					\$	\$	\$
(100 PPM RANGE) 80 ppm Methane In Air Ultra Zero - Certified							33AL	7" x 21"		TBD					\$	\$	\$
Oxygen 4.5% Balance N2 Certified	+/- 20%	+/- 5%	+/- 5%				33AL	7" x 21"		TBD					\$	\$	\$
Oxygen 9.0% Balance N2 Certified	+/- 20%	+/- 5%	+/- 5%				200 F13	200	9" X 51"	1					\$	\$	\$
Ethanol 89 ppm In Air Certified	+/- 20%	+/- 5%	+/- 5%				200 F13	200	9" X 51"	TBD					\$	\$	\$
Ethane 15 ppm In Air Certified	+/- 10%	+/- 2%	+/- 2%				200 F13	200	9" X 51"	TBD					\$	\$	\$
Ethane 100 ppm In Air Certified	+/- 10%	+/- 2%	+/- 2%				200 F13	200	9" X 51"	TBD					\$	\$	\$
	+/- 10%	+/- 2%	+/- 2%				200 F13	152	8" X 48"	TBD					\$	\$	\$