



**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 0B2 / Noyau 0B2
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 Test Cell Analysis Control System	
Solicitation No. - N° de l'invitation K8A21-200244/B	Date 2019-12-05
Client Reference No. - N° de référence du client K8A21-200244	
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-956-78168	
File No. - N° de dossier pv956.K8A21-200244	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-01-16	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Courteau, Robert	Buyer Id - Id de l'acheteur pv956
Telephone No. - N° de téléphone (343) 550-1614 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: ENVIRONMENT AND CLIMATE CHANGE CANADA EMISSIONS RESEARCH & MEASUREMENT SEC C/O JIM FEARN 335 RIVER RD OTTAWA Ontario K1V1C7 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
L'Esplanade Laurier
140 O'Connor Street,
East Tower, 7th Floor
Ottawa
Ontario
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

1.1 Reissue of Bid Solicitation

This bid solicitation cancels and supersedes previous bid solicitation number K8A21-200244/A dated 11 October 2019 with a closing of 02 December 2019 at 14:00 EST. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

1.2 Requirement

The requirement is detailed under Annex A.

1.3 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.

1.4 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA).

1.5 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

The 2003 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

The 2003 standard instructions is amended as follows:

- Section 08, entitled Transmission by facsimile or by epost Connect, is amended as follows:
subsection 2. is deleted entirely and replaced with the following:

2. epost Connect

-
- a. Unless specified otherwise in the bid solicitation, bids may be submitted by using the [epost Connect service](#) provided by Canada Post Corporation.
- i. PWGSC, National Capital Region: The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC headquarters is:

tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

or, if applicable, the email address identified in the bid solicitation.

- ii. PWGSC regional offices: The only acceptable email address to use with epost Connect for responses to bid solicitations issued by PWGSC regional offices is identified in the bid solicitation.
- b. To submit a bid using epost Connect service, the Bidder must either:
- i. send directly its bid only to the specified PWGSC Bid Receiving Unit, using its own licensing agreement for epost Connect provided by Canada Post Corporation; or
- ii. send as early as possible, and in any case, at least six business days prior to the solicitation closing date and time, (in order to ensure a response), an email that includes the bid solicitation number to the specified PWGSC Bid Receiving Unit requesting to open an epost Connect conversation. Requests to open an epost Connect conversation received after that time may not be answered.
- c. If the Bidder sends an email requesting epost Connect service to the specified Bid Receiving Unit in the bid solicitation, an officer of the Bid Receiving Unit will then initiate an epost Connect conversation. The epost Connect conversation will create an email notification from Canada Post Corporation prompting the Bidder to access and action the message within the conversation. The Bidder will then be able to transmit its bid afterward at any time prior to the solicitation closing date and time.
- d. If the Bidder is using its own licensing agreement to send its bid, the Bidder must keep the epost Connect conversation open until at least 30 business days after the solicitation closing date and time.
- e. The bid solicitation number should be identified in the epost Connect message field of all electronic transfers.
- f. It should be noted that the use of epost Connect service requires a Canadian mailing address. Should a bidder not have a Canadian mailing address, they may use the Bid Receiving Unit address specified in the solicitation in order to register for the epost Connect service.
- g. For bids transmitted by epost Connect service, Canada will not be responsible for any failure attributable to the transmission or receipt of the bid including, but not limited to, the following:
- i. receipt of a garbled, corrupted or incomplete bid;
- ii. availability or condition of the epost Connect service;
- iii. incompatibility between the sending and receiving equipment;
- iv. delay in transmission or receipt of the bid;
- v. failure of the Bidder to properly identify the bid;
- vi. illegibility of the bid;
- vii. security of bid data; or,
- viii. inability to create an electronic conversation through the epost Connect service.
- h. The Bid Receiving Unit will send an acknowledgement of the receipt of bid document(s) via the epost Connect conversation, regardless of whether the conversation was initiated by the supplier using its own license or the Bid Receiving Unit. This acknowledgement will confirm only the receipt of bid document(s) and will not confirm if the attachments may be opened nor if the content is readable.

-
- i. Bidders must ensure that that they are using the correct email address for the Bid Receiving Unit when initiating a conversation in epost Connect or communicating with the Bid Receiving Unit and should not rely on the accuracy of copying and pasting the email address into the epost Connect system.
 - j. A bid transmitted by epost Connect service constitutes the formal bid of the Bidder and must be submitted in accordance with section 05.

2.2 Submission of Bids

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

Bid Receiving - PWGSC

Place du Portage, Phase III, Tower B
11 Laurier Street
Gatineau, Quebec
For couriers: J8X 4A6
For regular mail: K1A 0S5

Telephone: (819) 420-7201
Fax No.: (819) 997-9776

The above address is for the sole purpose of bid submission. No other communications are to be forwarded to this address.

No proposal shall be sent directly to the PWGSC Contracting Authority.

2.3 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 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 Ontario.

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)

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

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

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

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

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

Section III: Certifications

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

3.2 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Attachment 1, Form 2 Electronic Payment Instruments, to identify which ones are accepted.

If Attachment 1, Form 2, 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.

3.3 Exchange Rate Fluctuation

SACC *Manual* clause [C3011T](#) (2013-11-06), Exchange Rate Fluctuation

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 Evaluation Criteria

The mandatory technical evaluation criteria are detailed in Annex A.

4.1.2 Financial Evaluation

The financial evaluation will be conducted by calculating the Total Aggregated Bid Price in accordance with the pricing tables provided in Annex B - Pricing Tables.

Evaluation of Price - Bid

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP Destination, Incoterms® 2010, Canadian customs duties and excise taxes included.

Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

4.2 SACC Manual Clauses

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

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

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.

6.3.2 Supplemental General Conditions

4001 (2015-04-01) Hardware Purchase, Lease and Maintenance,
4003 (2010-08-16) Licensed Software, and
4004 (2013-04-25) Maintenance and Support Services for Licensed Software,

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 the date of Contract Award to exactly one year from said date, inclusive.

6.4.2 Delivery Date

All the deliverables must be received and installed on or before March 31, 2020.

6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point:

Environment and Climate Change Canada
Emissions Research and Measurement Section
335 River road, Ottawa, Ontario, K1V 1C7

Solicitation No. - N° de l'invitation
K8A21-200244/B
Client Ref. No. - N° de réf. du client
K8A21-200244

Amd. No. - N° de la modif.
File No. - N° du dossier
pv956. K8A21-200244

Buyer ID - Id de l'acheteur
pv956
CCC No./N° CCC - FMS No./N° VME

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Robert Courteau
Supply Specialist
Public Works and Government Services Canada
Commercial Consumer Products Directorate
Room 7-153, 140 O'Connor Street, Ottawa, Ontario, K1A 0R5

Telephone: 343-550-1614
E-mail: robert.courteau@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 Technical Authority

The Technical Authority for the Contract is:

(to be filled in only at contract award)

The Technical 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 Technical Authority, however the Technical 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 Accounts Payable Contact

(to be filled in only at contract award)

6.5.4 Contractor's Representative *(to be completed by the bidder)*

6.5.4.1 General enquiries

Name: _____

Tel. No. _____ ext: _____

E-mail address: _____

6.5.4.2 Delivery Follow-up

Name: _____

Tel. No. _____ ext: _____

E-mail address: _____

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 a firm price, as specified in Annex B – Pricing Tables for a cost of \$_____ (to be filled in only 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.

6.6.2 SACC Manual Clauses

SACC Manual clause [A0222T](#) (2014-06-26) Evaluation of Price - Canadian / Foreign Bidders

SACC Manual clause [A9068C](#) (2010-01-11) Government Site Regulations

SACC Manual clause [C2000C](#) (2007-11-30) Taxes - Foreign-Based Contractor

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

6.6.3 Electronic Payment of Invoices – Contract (See: Attachment 1, Form 2)

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

- a. Direct Deposit (Domestic and International);
- b. Electronic Data Interchange (EDI);
- c. Wire Transfer (International Only);

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) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
 - (b) one (1) copy must be forwarded to the consignee.
 - (c) Invoices and order confirmations can be sent via e-mail to:

(inserted at Contract Award)
 - (d) To facilitate the payment process, it is important that the Contractor quote the contract number on all the invoices, shipping bills and packing slips. Failure to do so will delay payment and the date used for calculating interest on overdue accounts.

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 Ontario.

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 supplemental general conditions:
 - a. 4001 (2015-04-01) Hardware Purchase, Lease and Maintenance;
 - b. 4003 (2010-08-16) Licensed Software;
 - c. 4004 (2013-04-25) Maintenance and Support Services for Licensed Software;
- (c) the general conditions 2010A (2016-04-04) General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Pricing Tables; and
- (f) the Contractor's bid dated _____.

6.11 SACC Manual Clauses

SACC Manual clause [G1005C](#) (2016-01-28) Insurance
SACC Manual clause [B1501C](#) (2018-06-21) Electrical Equipment
SACC Manual clause [D2000C](#) (2007-11-30) Marking
SACC Manual clause [D2001C](#) (2007-11-30) Labeling

6.12 Shipping Instructions - Delivery at Destination

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

Delivered Duty Paid DDP Ottawa, Canada Incoterms 2010 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.

ANNEX A

REQUIREMENT

Background:

Environment and Climate Change Canada's (ECCC) is required under the Canadian Environmental Protection Act (CEPA) Part 7 Division 5 to conduct exhaust emission measurements on ultra-low emission light duty vehicles (ULEV). The ERMS currently has a fully functional, automated light duty vehicle emissions test laboratory however the analysis control system is reaching the end of its useful life, and the objective is to replace the existing test cell system with a current state-of-the-art system.

The Emissions Research and Measurement Section (ERMS) has the requirement for the supply and commissioning for one control system to integrate the existing analysis components necessary to conduct exhaust emission measurements of ULEVs according to the test procedures described in the relevant sections of the United States Code of Federal Regulations Title 40 Part 1066, inclusive of all system components, installation, commissioning, accessories, training, and technical documentation.

As this testing is being performed to support regulatory and research commitments of CEPA it is paramount that the instrumentation meets technical and reliability requirements and whose results are accepted by industry.

Test Cell Analysis Control System

1.0 Application Description

The system must provide an automation analysis application for executing vehicle emission tests. The application shall provide integration, control and management functions to allow an appropriately equipped test cell to perform vehicle emission tests to legislative standards and for R&D purposes.

The system shall enable the user to measure vehicle exhaust emissions collected in a sample bag, measure continuous dilute and modal emissions from alternative, gasoline and diesel fueled vehicles. This data is then used to provide the vehicle mass emissions produced by the vehicle under test according to the test executed and the regulatory requirements of that test. The system shall also allow the user to create custom testing programs.

The system shall be provided with testing routines, procedures and analysis based upon the regulatory requirements of the World Light-Duty Test Procedures (WLTP) and 40 CFR 1066, as well as other global drive cycles. The system shall allow user developed drive and test cycles as well as vehicle shift schedules to be imported into the application.

The system must include features to manage emission measurement analysis equipment during the test, record data, analyze recorded measurements and generate a report.

The system shall be provided with:

- An integrated Driver's Aid
- Global Drive Cycles

- Shift Schedules
- Emission Test Execution
- Test Results Reporting
- Test Results Analysis
- User Configured Graphics
- User defined test execution
- Quality control checks of the entire test cell, including the dynamometer and emissions measurement systems
- Centralized management of configuration and results data

The system shall be compliant with current regulations standard for:

- USA according to EPA 40 CFR Part 86, 40 CFR Part 1066
- World Harmonized Light Duty Test Procedures (WLTP)

1.1 Features which must be included

- Integrated Driver's Aid as a configurable test cell resource
- Clear indications for devices status, operations and measured values
- Editors to configure the system and create new resources
- Analysis to verify and trace results calculations
- Analysis to generate an audit report of the calculations
- The ability to editors and browse test definitions, test cycles, fuels and vehicles
- Drive trace completion status
- Device operations and status
- Display of test status
- Progress through the test and time to completion
- Continuous concentration data
- CVS blower start/stop
- Heat exchanger control if present
- Flow selection based on test data, including flow setting on a per-phase basis
- Bag sampling venturi selection (if present)
- Bag preparation, sampling and reading
- Management of clean/dirty bag sets

1.2 Tests, Reported Results and Analysis

Drive cycles to be included in the system:

Table 1: USA Test Procedures

- EPA 75 4 Bag
- EPA 75 3 Bag
- EPA 75 2 Bag

-
- EPA Highway Fuel Economy (HWFET) with Warm Up
 - EPA Highway Fuel Economy (HWFET)
 - EPA US06
 - EPA SC03
 - US06 Split Bag Test

Table 2: European Test Procedures

- MVEG A (AT), (MT)
- MVEG B (AT), (MT)
- WLTP Class1
- WLTP Class2
- WLTP Class3a
- WLTP Class3b

1.3 Analysis and Test Reports

The system shall provide data analysis and reports based upon the regulatory requirements chosen during the vehicle emission test.

Reports shall contain the following information:

- Vehicle Test Header Information
- Fuel data
- Regulation Test Identification
- Phase-based Mass and mass/distance results for:
 - Bag Sample
 - Continuous Dilute Sample
 - Raw Continuous Sample
- Continuous Mass results for:
 - Continuous Dilute Sample
- Phase-based Fuel Economy Results
- Phase-based Particulate Mass Report
- Phase-based Particulate Number Reporting
- Driver Violation Report
- Test Error Reporting
- Analyzer Zero – Span Drift Reporting
- Bag to continuous mass comparisons
- Calibration and drift check results
- CVS Mass Propane Injection Report (CFO)

2 WORKSTATION COMPUTER HARDWARE

The system shall be provided with all computer hardware needed to automate and synchronize the test sequences, calculations and results storage, it shall be provided with a suitable uninterruptable power supply (UPS) and have the following electrical approvals:

- Underwriters Laboratories
- Canadian National Standard/CSA

The system shall be provided in a workstation cabinet of at least 12U, 19" rack-mount space. All communications between the control system and the auxiliary systems (CVS, Analyzers, particulate samplers etc) shall be of the type serial network, LAN or CANbus with a communication protocol (i.e MODBUS, AK etc) that is openly available or made available to ECCC so that ECCC can configure the auxiliary equipment to communicate to the control system themselves. Control system must be able to communicate with industry standard exhaust gas analyzers, particulate sampling systems and other commonly utilized exhaust emission measurement systems using either the AK protocol or a suitable combination of analog and digital signals.

3 DRIVER AID EQUIPMENT

3.1 : Driver Aid Monitor

Preference will be given to a Wireless driver aid monitor with in-vehicle mounting devices and a wireless pendant although hard wired option will be deemed acceptable. The display will be capable of being placed directly in front of the driver.

3.2 Driver Aid Overview

- Trace scrolling display, top to bottom
- Zero speed, left side of display
- Driver violation message window
- Driver message window
- Trace tolerance error lines
- Gear Shift Creator, Editor and Importer
- Trace Creator, Editor and Importer
- Transmission shift window and gear position message
- Alarm window display
- MPH or KPH Scaled Display based upon Test Type
- Interface to any dynamometer, with support for analog or frequency-based speed feedback signals
- Display chart-based target and actual speed

4 Upgrades to system

ECCC will be provided either a lifetime or subscription based method to maintain the integrity of the system in terms of enhancements in the form of:

Patches/ Updates:

- Any Minor or Major Release

- Packages of Features
- Bug Fixes

In order to:

- Provide new functions
- Improve robustness
- Provide compatibility to actual software components like WINDOWS versions

Installation

Installation must be completed at 335 River Road, Ottawa, Ontario. Installation must be conducted within 15 business days of equipment delivery. Arrangements for date/time to be made with the Technical Authority.

Manuals

One complete set (hard or softcopy) of user documentation must be supplied in English.

Optional Training Requirement

Training will be done on-site (335 River Road, Ottawa, Ontario) over 4 days. User training must be provided in English for up to four (4) users. The training must enable the ECCC analyst to carry out basic operations, general applications, and routine maintenance and troubleshooting of the system. All costs associated with the on-site training must be included in the price.

Training must be conducted within 20 business days of equipment delivery.

**Annex A – Part 2.1
 Technical Evaluation Criteria**

The following requirements are the technical evaluation criteria, which will be evaluated during the Bid Evaluation. Each criteria needs to be demonstrated in the bidder's technical submission with the use of product literature, screen shots, or similar evidence.

Item:	CRITERIA	Reference to bidder's submission
1	Screen capture showing image which would appear on drivers aid monitor during an FTP	
2	Screen capture showing status of instruments if they were connected to the system (current measured concentration, status)	
3	Screen capture showing status of critical flow Venturi system as it would appear if connected to the system	
4	Screen capture of exhaust analysis instrument linearity check/curve verification window	
5	Screen capture of calculated test result from an ftp test sequence	
6	Screen capture of dilution tunnel propane injection test results	
7	The bidder must be an established manufacturer or reseller having sold at least 15 of these control systems in the past 5 years (may have been sold as part of a larger emission measurement system including hardware)	
8	Screen capture of a typical sensor calibration (eg, tunnel RTD (resistive temperature device))	
9	Describe communication protocol method. The method must use either the AK protocol or a suitable combination of analog and digital signals able to monitor and control exhaust emissions analyzers (gaseous and particulate) as well as ancillary test cell equipment (e.g. constant volume sampling systems)	
10	Connection type of driver's aid monitor (wired or wireless), Preference will be given to wireless	

ANNEX B

PRICING TABLES

The Bidder must provide all of the pricing requested in the following Tables in accordance with **Article 6.6.1 - Basis of Payment.**

Table 1: Initial Requirements

Item	Description	Price (CAD)	Quantity	Total Price
1	Test Cell Analysis Control System (with all components as listed in Annex A)	\$	1	\$
Total Evaluation Price (CAD)				\$

Table 2: Optional Requirements

Item	Description	Price (CAD)	Quantity	Total Price
1	Training (to take place prior to March 31, 2020)	\$	1	\$

ATTACHMENT 1

CERTIFICATIONS AND ADDITIONAL INFORMATION

The Contractor must provide the required certification(s) and additional information to be awarded a contract.

The certification(s) provided by the Contractor to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a contractor in default if any certification made by the Contractor is found to be untrue whether made knowingly or unknowingly, during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Contractor's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will constitute a default under the Contract.

The Contractor must submit the following duly completed certifications as part of the contract.

1. Integrity Provisions

1.1 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 Contractor must provide the required documentation, as applicable.

1.2 Complete List of Names of Board of Directors

In accordance with the *Ineligibility and Suspension Policy* (see Section 17 at <http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>) and General Conditions (SACC 2010A, Section 29), the Contractor must provide a list of the names of its Board of Directors (see Form 1), which will be used to verify conformance to the Integrity Provisions.

2. Product Conformance

The Contractor certifies that all goods proposed conform, and will continue to conform, throughout the period of the contract, to the requirement detailed under Annex A.

Contractor's authorized representative signature

Date

3. Price Certification

The Contractor certifies that the price quoted is not in excess of the lowest price charged anyone else, including the Contractor's most favoured customer, for the like quality and quantity of the goods, services or both.

Contractor's authorized representative signature

Date

Solicitation No. - N° de l'invitation
K8A21-200244/B
Client Ref. No. - N° de réf. du client
K8A21-200244

Amd. No. - N° de la modif.
File No. - N° du dossier
pv956. K8A21-200244

Buyer ID - Id de l'acheteur
pv956
CCC No./N° CCC - FMS No./N° VME

4. Federal Contractors Program for Employment Equity

The Contractor certifies that the Contractor, **and any of the Contractor's members if the Contractor 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** website ([http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_p
rogram.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)).

Form 1 COMPLETE LIST OF DIRECTORS (As per Standard Instructions, Clauses and Conditions Part 2)

Name	Position
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Form 2 ELECTRONIC PAYMENT INSTRUMENTS

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

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