

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works and Government Services Canada
ATB Place North Tower
10025 Jasper Ave./10025 ave. Jaspe
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

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 Large Strain Consolidometer | |
| Solicitation No. - N° de l'invitation 23295-150229/A | Date 2015-01-05 |
| Client Reference No. - N° de référence du client 23295-150229 | |
| GETS Reference No. - N° de référence de SEAG PW-\$EDM-069-10340 | |
| File No. - N° de dossier EDM-4-37187 (069) | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-02-17 | Time Zone Fuseau horaire Mountain Standard Time MST |
| F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/> | |
| Address Enquiries to: - Adresser toutes questions à: Glover, Cindy | Buyer Id - Id de l'acheteur edm069 |
| Telephone No. - N° de téléphone (780) 497-3860 () | FAX No. - N° de FAX (780) 497-3510 |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATURAL RESOURCES STE A202 1 OIL PATCH DR. DEVON Alberta T9G1A8 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

Public Works and Government Services Canada
ATB Place North Tower
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

| | |
|--|--|
| 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 |

Solicitation No. - N° de l'invitation

23295-150229/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

edm069

Client Ref. No. - N° de réf. du client

23295-150229

File No. - N° du dossier

EDM-4-37187

CCC No./N° CCC - FMS No/ N° VME

(This page is intentionally blank.)

TABLE OF CONTENTS

| | |
|---|-----------|
| PART 1 - GENERAL INFORMATION | 4 |
| 1.1 REQUIREMENT..... | 4 |
| 1.2 DEBRIEFINGS..... | 4 |
| PART 2 - BIDDER INSTRUCTIONS..... | 4 |
| 2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS | 4 |
| 2.2 SUBMISSION OF BIDS | 4 |
| 2.3 ENQUIRIES - BID SOLICITATION | 4 |
| 2.4 APPLICABLE LAWS | 4 |
| PART 3 - BID PREPARATION INSTRUCTIONS | 5 |
| 3.1 BID PREPARATION INSTRUCTIONS | 5 |
| PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION..... | 6 |
| 4.1 EVALUATION PROCEDURES | 6 |
| 4.2 BASIS OF SELECTION | 6 |
| PART 5 - CERTIFICATIONS..... | 6 |
| 5.1 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD | 6 |
| PART 6 - RESULTING CONTRACT CLAUSES | 8 |
| 6.1 SECURITY REQUIREMENTS | 8 |
| 6.2 REQUIREMENT..... | 8 |
| 6.3 STANDARD CLAUSES AND CONDITIONS | 8 |
| 6.4 TERM OF CONTRACT | 8 |
| 6.5 AUTHORITIES | 8 |
| 6.6 PAYMENT | 9 |
| 6.7 INVOICING INSTRUCTIONS..... | 9 |
| 6.8 CERTIFICATIONS..... | 10 |
| 6.9 APPLICABLE LAWS | 10 |
| 6.10 PRIORITY OF DOCUMENTS..... | 10 |
| 6.11 <i>SACC MANUAL</i> CLAUSES..... | 10 |
| ANNEX A - REQUIREMENT | 11 |
| ANNEX B - BASIS OF PAYMENT | 13 |
| ANNEX C - EVALUATION CRITERIA..... | 14 |

PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 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.

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 (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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 Alberta.

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.

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. The total amount of Applicable Taxes must be shown separately.

3.1.1 Exchange Rate Fluctuation

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

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

Refer to Annex C, Evaluation Criteria.

4.1.2 Financial Evaluation

SACC Manual Clause A0222T (2014-06-26), Evaluation of Price – Canadian / Foreign Bidders

4.2 Basis of Selection

4.2.1 Basis of Selection - Mandatory Technical Criteria

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

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and associated information 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 in carrying out any of its obligations under the Contract, 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 may render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications 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 comply with the request of the Contracting Authority and to provide the certifications within the time frame provided will render the bid non-responsive.

5.1.1 Integrity Provisions - Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of

Standard Instructions 2003. The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

5.1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from Employment and Social Development Canada (ESDC) - 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

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 this 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>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2014-11-27), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before March 31, 2015.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Cindy Glover
Supply Specialist
Public Works and Government Services Canada
ATB Place, 5th Floor
Edmonton, AB T5J 1S6

Telephone: (780) 497-3860

Facsimile: (780) 497-3510

E-mail address: cindy.glover@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:

To be Determined

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: _____

Telephone: _____

Facsimile: _____

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, Basis of Payment for a cost of \$ _____ (insert the amount at contract award). Customs duties are included and Applicable Taxes are extra.

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

6.6.2 Single Payment

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

6.6.3 SACC Manual Clauses

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

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.

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, or if 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.

6.9 Applicable Laws

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

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 (2014-09-25), Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment
- (e) the Contractor's bid dated _____

6.11 SACC Manual Clauses

B7500C (2006-06-16), Excess Goods
G1005C (2008-05-12), Insurance

ANNEX A

REQUIREMENT

1. Requirement

National Resources Canada located in Devon, Alberta has a requirement for four (4) large-strain consolidation cells and all accompanying hardware as per the specifications detailed below. The large-strain consolidation cells measurement apparatus will be used to measure the long-term consolidation of fluid tailings that have initial void ratios (Volume water/Volume solid) of at least two (2) and starting self-weight effective stresses of at most 400 pascal (Pa). These types of samples are too soft and undergo too great a volume change during testing to be tested with a standard consolidation apparatus. The objective of this analysis is to determine the relationship between effective stress and void ratio, and void ratio and hydraulic conductivity.

2. Mandatory Technical Specifications

2.1 Sample Cell and Hardware

- 2.1.1 The sample cell must have an inside diameter of 100 mm – 150 mm and up to 200 mm high (this gives a suitable diameter-to-height ratio needed to minimize the impact of wall friction) and allows for a workable sample size.
- 2.1.2 The sample cell must be cylindrical, and made of a transparent material so the sample can be observed during the test.
- 2.1.3 The cell and associated hardware must be able to withstand the strain when the sample is subjected to loads up to 1000 kilopascals (kPa), for repeated trials. Documentation must be provided showing the offered design can withstand these pressures
- 2.1.4 All necessary hardware must be supplied so incremental loads of 0.25 kPa and greater can be added to the top of the fluid tailings sample, for each step in the consolidation test, until the load reaches at least 1000 kPa. At a minimum, starting at a stress of 0.25 kPa, ability to double the load at each consolidation step, up to a total load of 1000 kPa.
- 2.1.5 The cell must allow for movement of water through both the bottom of the cell and top of the cell during the testing period, in order to conduct the tests as rapidly as possible. These drainage paths must have valves so they can be closed or opened, during the test, depending on the needs of the test (i.e. whether single-drained or double-drained modes).
- 2.1.6 The cells must be configured so that the hydraulic conductivity (permeability) can be measured after each load step. The permeability measurement must be able to simulate an upwards flow methodology for measuring permeability as this is the best method for fine grained soils of this nature. The process must be an upwards flow, constant flow method, which will allow for computer monitoring of the hydraulic conductivity test (as opposed to a technician needing to monitor the test). The upward flow, constant head method will also be allowed if the system allows for computer monitoring (i.e. manual recording of measurements is not needed). The change in the pore pressure over the height of the sample must be monitored.

- 2.1.7 The set-up must allow for disassembly and access to the sample after the sample has fully consolidated after each load increment, in order to perform shear strength measurements. Supplier does not have to supply the rheometer.

2.2 Measurement

- 2.2.1 A displacement meter (such as a linear variable differential transformer (LVDT)) must be included that can measure the vertical displacement of the sample in the cell as a function of time, and the output of which must be able to be connected to standard data acquisition equipment so data can be automatically recorded as a function of time. The device must be able to measure a displacement change of at least 0.01 cm and can handle a total displacement of at least 5.0 cm.
- 2.2.2 Excess pore pressure of the sample must be monitored with pore pressure transducers and these pore-pressure sensors wired so the output can be recorded automatically as a function of time. Ideally, multiple pore pressure sensors should be situated at more than one interval along the length of the sample. The sensors must be able to determine a change of 10 Pa.

N° de l'invitation - Solicitation No.
23295-150229/A
N° de réf. du client - Client Ref. No.
23295-150229

N° de la modif - Amd. No.
File No. - N° du dossier
EDM-4-37187

Id de l'acheteur - Buyer ID
edm069
N° CCC / CCC No./ N° VME - FMS

ANNEX B

BASIS OF PAYMENT

Firm unit prices, GST/HST extra if applicable, Custom Duties included, FOB Destination, including all delivery and off-loading charges

| Item | Description | Unit | Qty | Unit Price |
|-------------|--|-------------|------------|-------------------|
| 001 | Large Strain Consolidation Cells Measurement Apparatus As per Annex A, Requirement | Each | 4 | \$_____/ea |

ANNEX C

EVALUATION CRITERIA

1. Technical Evaluation Criteria:

Bidders should include two (2) copies of descriptive literature of the large strain consolidation cells measurement apparatus offered in sufficient detail **AND** clearly indicate compliance with each of the individual requirements from the specifications identified under Annex A, Article 2 – Mandatory Technical Specifications, items 2.1.1 to 2.2.2, inclusive.

It is the responsibility of the bidder to show compliance for each item by indicating Whether and How their product meets or exceeds each specification. Bidders should indicate where compliance is identified in their literature and/or how the large strain consolidation cells measurement apparatus offered meets the required specification. Comments should be made on all points under the Mandatory Technical Specifications in Annex "A", Article 2, items 2.1.1 to 2.2.2 inclusive, followed by as much detail as possible. It will be to the bidder's advantage to furnish as much detail as possible to support their comments and claims of compliance for each specification. Reference the page number and highlight the specification in your technical literature that supports compliance. If there is no technical literature to support a specification, bidders should indicate so.

The Crown is under NO obligation to seek clarification of the bid(s) or the supporting technical documentation provided. Bidders should note that failure to be able to demonstrate any capability to which they claim compliance will result in their proposal being considered non-responsive. Canada reserves the right to reject any bid which does not comply with this solicitation.