



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

Public Works and Government Services / Travaux
publics et services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3
Bid Fax: (613) 545-8067

**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

Address all inquiries to:
Tammy.Weaver@tpsgc-pwgsc.gc.ca

Title - Sujet Insulation Resistivity Tester	
Solicitation No. - N° de l'invitation 23240-200399/A	Date 2019-11-08
Client Reference No. - N° de référence du client 23240-200399	
GETS Reference No. - N° de référence de SEAG PW-\$KIN-508-7942	
File No. - N° de dossier KIN-9-52131 (508)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-12-23	Time Zone Fuseau horaire Eastern Standard Time EST
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: Weaver, Tammy	Buyer Id - Id de l'acheteur kin508
Telephone No. - N° de téléphone (613) 484-1809 ()	FAX No. - N° de FAX (613) 545-8067
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATURAL RESOURCES 183 Longwood Road South Hamilton Ontario L8P0A5 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 / Travaux publics et
services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3

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 Requirement

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

1.2 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.3 Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA)."

1.4 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) (<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](#) ([2019-03-04](#)) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

2.2 Submission of Bid

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

*Bid Receiving Public Works and Government Services Canada
Kingston Procurement
86 Clarence St, 2nd Floor
Kingston, Ontario, K7L 1X3
Bid Fax: (613) 545-8067*

Email address for epost Connect service: TPSGC.orreceptiondessoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

Facsimile number: 613-545-8067

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 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

- If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy)
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 hard copy 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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). 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.

3.1.1 Electronic Payment of Invoices – Bid

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

If Annex “C” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

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

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

1. Bidders must address each requirement in sufficient depth to permit a complete analysis and assessment by the evaluation team. Supporting documentation (proposal, product specifications, and literature) should reference each of the mandatory requirements. Proposals failing to respond to the mandatory requirements will be excluded from further consideration. Only proposals found to meet all of the mandatory requirements will continue on to the financial evaluation.

Req. No.	Requirement	Page information can be found in Proposal
A1	<u>EQUIPMENT CERTIFICATIONS</u>	
A1-1	The equipment must be CSA or ULC approved with visible markings. The bid price shall include any modifications necessary to ensure compliance with the electrical code and Canadian labour regulations. The Remediation is the vendor's responsibility at no additional cost.	
A1-2	Control of Hazardous energy – Lockout and Other Methods. The equipment installation must be inspected and achieve ESA certification must comply with CSA-Z460	
A1-3	Other Certifications – The equipment must be built and operate in accordance with the Canada Labour Code, Part II, and as a heating device must comply with the National Fire Code. Applicable regulations may include but are not limited to NFPA 79, 85, 86, and 86C.	
A2	<u>DESIGN BASIS</u>	
A2-1	The equipment must be designed with a control unit for the setting up of testing parameters, e.g. the pressure, temperature, current, voltage, etc.	
A2-2	The equipment must be designed with a display unit to display the testing results.	
A2-3	The tester must contain at least a test head, a hydraulic press and a hot plate, with appropriate control units for each.	
A2-4	The equipment must be able to operate indoors, within a research facility, where the ambient humidity may vary from 10% to 80% (non-condensing) and where the ambient temperature may vary from 15 °C to 35 °C.	
A2-5	The equipment's footprint must be no larger than 150 cm (width) x 150 cm (depth) x 150 cm (height).	
A2-6	The total weight of the tester, including all the components must not exceed 100 kg.	
A2-7	The equipment must consist of: – A Test Head consisting of two parallel rows of five vertically mounted	

Req. No.	Requirement	Page information can be found in Proposal
	<p>rods free to move axially and apply equal pressure.</p> <ul style="list-style-type: none"> - Suitable metallic contact button on each rod, and the button is insulated from the rod. - The contact area of each of the ten contact buttons must be 0.645 cm² (64.5 mm²). - A 5-Ohm ($\pm 0.1\%$) resistor connected to each contact button. - Two 1/8 inch (3 mm) diameter twist drills or hardened and pointed rods for contacts with the base metal of the testing piece. - A Hydraulic Press with a capacity of 2,000 lb [10,000 N], and with mountings to accommodate the test head, testing specimens or punchings. - The Hydraulic Press must have a Hot Plate that is suitable for heating the testing piece to the test temperature. - The Hot Plate must be able to heat and maintain the testing piece to a temperature of 150°C ($\pm 5^\circ\text{C}$). 	
A3	<u>EQUIPMENT PERFORMANCE</u>	
A3-1	<p>Test Head Power Supply</p> <ul style="list-style-type: none"> - The voltage regulated DC power supply must be capable of voltage regulation of at least 0.5% at 0.5 V during load changes from 0 to 1.0 A, and line voltage variations $\pm 10\%$. 	
A3-2	<p>Hot Plate Power Supply</p> <ul style="list-style-type: none"> - The hot plate power supply and temperature control device must be capable of automatic temperature control and variable setting features. - It must be able to maintain temperature of the hot plate within 5°C of the set temperature. 	
A3-3	<p>Ammeter</p> <ul style="list-style-type: none"> - The DC ammeter must be a low impedance 0 to 1 A digital type rated for 0.1% or better accuracy, and have resolution of 0.01A. 	
A3-4	<p>Voltmeter</p> <ul style="list-style-type: none"> - The DC voltmeter should be a high impedance 0 to 1 V digital type rated for 0.1% or better accuracy, and have resolution of 0.01 V. 	
A3-5	<p>Pressure</p> <p>An exact pressure of 2.1 MPa (300 psi, 300 lb on 1 square inch, 645 mm²) must be able to be generated, and other pressures within the hydraulic press limits can also be generated.</p>	
A3-6	<p>Compliance with standards</p> <p>The Franklin tester must comply to ASTM-Standard A717.</p>	
A3-7	<p>Electrical Cord & Plug</p> <p>At least a 10 feet electrical cord that can be plugged into a power source.</p>	
A4	<u>AVAILABLE UTILITIES</u>	
A4-1	<p>The equipment must be able to be connected to one or more of the following building power supplies.</p> <ul style="list-style-type: none"> - 220V / 60Hz AC. - 110V / 60Hz AC. <p>Electrical supply voltage tolerance: $\pm 10\%$.</p>	

Req. No.	Requirement	Page information can be found in Proposal
	Contractor must supply any transformers, power conditioning or other components required to adapt to the available utilities.	
A5	<u>CONTROLS</u>	
A5-1	The control software must be capable of: <ul style="list-style-type: none"> - User controllable parameter settings - Digital results storing - Displaying and analysing the testing results: total value and each of the 10 electrodes - User configurable measuring sequences - Sample identification input 	
A5-2	The control software must operate under Windows 7 or 10.	
A5-3	The software must allow the testing data to be exported in known file formats (e.g. ASCII format, text format) for analysis by third party software (e.g., Matlab, Microsoft Excel, Origin, etc.)	
A6	<u>DOCUMENTATION</u>	
A6-1	Installation and operating manuals for the entire system – hard copy, electronic pdf or MS Word format, in English	
A6-2	Equipment drawings and equipment layout drawings with overall dimensions of the system and requirements for maintenance access	
A6-3	Electrical, pneumatic, hydraulic and mechanical schematic diagrams.	
A6-4	Power and service requirements	
A7	<u>Service Requirement</u>	
A7-1	Response to a repair call within 72 hours.	
A7-2	Spare parts availability for 10 years from commissioning date.	
A8	<u>INSTALLATION, COMMISSIONING, TRAINING</u>	
A8-1	Provide commissioning services and demonstrate compliance with mandatory requirements.	
A9	<u>Additional Information</u>	
A9-1	The Bidder must have shipped, installed, operated and serviced a minimum of two (2) of the same or similar systems within the last 5 years of bid closing.	
A9-2	The Bidder must include a calibration plan identifying and listing each measuring device that must be calibrated, calibration range, recommended points and frequency of calibration.	

4.1.2 Financial Evaluation

1. The evaluated price will be based on the total lot price DDP.
2. SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price – Bid

4.2 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 AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of 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](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirement

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

[2010A](#) ([2018-06-21](#)), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2 Supplemental General Conditions

4003 (2010-08-06) Licensed Software

Amend as Follows:

Delete:

4003 14 (2008-05-12) Enhancements and Improvements

The Contractor agrees to provide Canada with all improvements, updates, upgrades and enhancements to the Licensed Software for ninety (90) days following the acceptance of the Licensed Software.

Insert:

4003 14 (2008-05-12) Enhancements and Improvements

The Contractor agrees to provide Canada with all improvements, updates, upgrades and enhancements to the Licensed Software for one (1) year following the acceptance of the Licensed Software.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to 30 April 2020 inclusive.

6.4.2 Delivery Date

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

6.4.3 Delivery Points

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Tammy Weaver
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
86 Clarence St, 2nd Floor
Kingston, Ontario
K7L 1X3

Telephone: 613-484-1809
Facsimile: 613-545-8067
E-mail: Tammy.Weaver@tpsgc-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.

6.5.2 Project Authority

The Project Authority for the Contract is: (to be provided upon contract award)

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____-____-_____
Facsimile: ____-____-_____
E-mail address: _____

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 in Annex B \$ _____ 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

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

6.6.3 Electronic Payment of Invoices – Contract

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

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 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.

6.8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

Solicitation No. - N° de l'invitation
23240-200399/A
Client Ref. No. - N° de réf. du client
23240-20-0399

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-9-52131

Buyer ID - Id de l'acheteur
KIN508
CCC No./N° CCC - FMS No./N° VME

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms 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 general conditions [2010A](#) ([2018-06-21](#)), General Conditions - Goods (Medium Complexity);
- (C) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____.

6.11 Shipping Instructions - Delivery at Destination

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

Delivered Duty Paid (DDP Fisheries and Oceans Canada, 867 Lakeshore Road, Burlington, ON, L7S1A1, Incoterms 2000 for shipments from a commercial contractor.

ANNEX "A"

REQUIREMENT

Introduction

Natural Resources Canada, Hamilton (CanmetMATERIALS), has a requirement for the purchase of one (1) Franklin Tester, which will be utilized as a testing tool to evaluate the surface insulation resistivity of insulating coatings applied onto electrical steel sheets or other metals. This is a critical piece of equipment for the development of electrical steels and motor cores for electric vehicles to reduce vehicle GHG emissions. With this capability, it will greatly help the timely delivery of the research, and also provide access to industrial users (e.g. Stelco Inc.) for related testing.

A Franklin tester with the ability to test the surface insulation resistivity of coatings applied onto electrical steel sheets or other metals. It must meet the requirements of the ASTM Standard A717.

This equipment will be installed and used in the Advanced Materials Processing Lab of CanmetMATERIALS, Hamilton, and will be delivered to CanmetMATERIALS, NRCan in Hamilton.

Natural Resources Canada – Innovation and Energy Technology Sector (IETS) – CanmetMATERIALS laboratory facility wishes to procure the following equipment and/or services: ***Franklin Tester***

The Contractor must supply a *Franklin Tester* that is suitable for the determination of the surface insulation resistivity of coated electrical steel sheets, plates, parts, or other coated metal components.

The Contractor must provide shipping, installation, commissioning, manuals, control software (if applicable) and drawings for this equipment.

The objective of the equipment is to provide researchers with an essential tool for the measurements of surface insulation resistivity of coated electrical steel sheets or other metals at room temperature and elevated temperatures under specified pressures.

Installation

Calibration Certification

The contractor must provide calibration and certification of calibration of the equipment as installed at the Hamilton Facility.

The system design must include calibration ports, and arrangements to facilitate the calibration operation.

Manuals & Equipment Drawings

The Contractor is to provide to NRCan, two (2) hard copies and one (1) electronic copy, in MS Word or PDF format, of the manuals which must include, but not limited to:

- Installation and startup manuals
- Calibration Procedure and certifications
- User Manuals including electrical, hydraulic and pneumatic schematics
- OEM certifications
- Maintenance, Troubleshooting & Parts manual
- Procedure to place the system into a safe and reliable shutdown state
- Emergency procedures

Manuals must be provided to NRCAN in English language.

The Contractor is to provide to NRCAN, electronic copies, in PDF format, of the system schematics, layouts, and equipment detail drawings.

Service, Support & Updates

The equipment must include technical support as either; regional technical support; technical phone support; or support via the Internet. Communication must begin within **72 hours** of the initial request for support.

The system provided must have spare parts and service support available for a minimum of **three (3) years** after purchase.

Acceptance Test Requirements

The equipment as supplied and installed must pass all tests and checks as specified in "Site Acceptance Testing". Contractor Qualifications

Mandatory Equipment Requirements

Req. No.	Requirement
A1	EQUIPMENT CERTIFICATIONS
A1-1	The equipment must be CSA or ULC approved with visible markings. The bid price shall include any modifications necessary to ensure compliance with the electrical code and Canadian labour regulations. The equipment installation must be inspected and achieve ESA certification. Remediation is the vendor's responsibility at no additional cost.
A1-2	Control of Hazardous energy – Lockout and Other Methods. The equipment must comply with CSA-Z460
A1-3	Other Certifications – The equipment must be built and operate in accordance with the Canada Labour Code, Part II, and as a heating device must comply with the National Fire Code. Applicable regulations may include but are not limited to NFPA 79, 85, 86, and 86C.
A2	DESIGN BASIS
A2-1	The equipment must be designed with a control unit for the setting up of testing parameters, e.g. the pressure, temperature, current, voltage, etc.
A2-2	The equipment must be designed with a display unit to display the testing results.
A2-3	The tester must contain at least a test head, a hydraulic press and a hot plate, with appropriate control units for each.
A2-4	The equipment must be able to operate indoors, within a research facility, where the ambient humidity may vary from 10% to 80% (non-condensing) and where the ambient temperature may vary from 15 °C to 35 °C.
A2-5	The equipment must consist of: – A Test Head consisting of two parallel rows of five vertically mounted rods free to move axially and apply equal pressure.

Req. No.	Requirement
	<ul style="list-style-type: none"> - Suitable metallic contact button on each rod, and the button is insulated from the rod. - The contact area of each of the ten contact buttons must be 0.645 cm² (64.5 mm²). - A 5-Ohm (□0.1%) resistor connected to each contact button. - Two 1/8 inch (3 mm) diameter twist drills or hardened and pointed rods for contacts with the base metal of the testing piece. - A Hydraulic Press with a capacity of 2,000 lb [10,000 N], and with mountings to accommodate the test head, testing specimens or punchings. - The Hydraulic Press must have a Hot Plate that is suitable for heating the testing piece to the test temperature. - The Hot Plate must be able to heat and maintain the testing piece to a temperature of 150°C (□5°C).
A3	<u>EQUIPMENT PERFORMANCE</u>
A3-1	<p>Test Head Power Supply</p> <ul style="list-style-type: none"> - The voltage regulated DC power supply must be capable of voltage regulation of at least 0.5% at 0.5 V during load changes from 0 to 1.0 A, and line voltage variations □10%.
A3-2	<p>Hot Plate Power Supply</p> <ul style="list-style-type: none"> - The hot plate power supply and temperature control device must be capable of automatic temperature control and variable setting features. - It must be able to maintain temperature of the hot plate within 5°C of the set temperature.
A3-3	<p>Ammeter</p> <ul style="list-style-type: none"> - The DC ammeter must be a low impedance 0 to 1 A digital type rated for 0.1% or better accuracy, and have resolution of 0.01A.
A3-4	<p>Voltmeter</p> <ul style="list-style-type: none"> - The DC voltmeter should be a high impedance 0 to 1 V digital type rated for 0.1% or better accuracy, and have resolution of 0.01 V.
A3-5	<p>Pressure</p> <p>An exact pressure of 2.1 MPa (300 psi, 300 lb on 1 square inch, 645 mm²) must be able to be generated, and other pressures within the hydraulic press limits can also be generated.</p>
A3-6	<p>Compliance with standards</p> <p>The Franklin tester must comply to ASTM-Standard A717.</p>
A3-7	<p>Electrical Cord & Plug</p> <p>At least a 10 feet electrical cord that can be plugged into a power source.</p>
A4	<u>AVAILABLE UTILITIES</u>
A4-1	<p>The equipment must be able to be connected to one or more of the following building power supplies.</p> <ul style="list-style-type: none"> - 220V / 60Hz AC. - 110V / 60Hz AC. <p>Electrical supply voltage tolerance: ± 10%.</p> <p>Contractor must supply any transformers, power conditioning or other components required to adapt to the available utilities.</p>
A5	<u>CONTROLS</u>

Req. No.	Requirement
A5-1	The control software must be capable of: <ul style="list-style-type: none"> - User controllable parameter settings - Digital results storing - Displaying and analysing the testing results: total value and each of the 10 electrodes - User configurable measuring sequences - Sample identification input
A5-2	The control software must operate under Windows 7 or 10.
A5-3	The software must allow the testing data to be exported in known file formats (e.g. ASCII format, text format) for analysis by third party software (e.g., Matlab, Microsoft Excel, Origin, etc.)
A6	<u>DOCUMENTATION</u>
A6-1	Installation and operating manuals for the entire system – hard copy, electronic pdf or MS Word format, in English
A6-2	Equipment drawings and equipment layout drawings with overall dimensions of the system and requirements for maintenance access
A6-3	Electrical, pneumatic, hydraulic and mechanical schematic diagrams.
A6-4	Power and service requirements
A7	<u>Service Requirement</u>
A7-1	Response to a repair call within 72 hours.
A7-2	Spare parts availability for 10 years from commissioning date.
A8	<u>INSTALLATION, COMMISSIONING, TRAINING</u>
A8-1	Provide commissioning services and demonstrate compliance with mandatory requirements.

Building Constraints

All building constraints should be verified against the latest version of the buildings as built drawings and specifications.

Loading Dock Limits:

The pinch point for truck unloading directly from their box or flat bed is the inner door and dock leveller:

Overhead door 2.3m wide x 3.0m high

- Dock floor is 1.2m below finish floor of the ground floor level.
- Dock leveller 20 Ton capacity with platform 2.1m wide x 2.1m long + drop down lip 2.14m wide x 2.22m Deep. Hydraulic leveller range is +/- 0.3m

The door at the top of the ramp is 2.3m wide x 3m high.

Elevator Limits:

Passenger Elevator:

- Load Limit: 1590 kg (3500 lb).
- Door Opening: width of 1070 mm (42") and a height of 2134 mm (84")

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23240-200399/A
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23240-20-0399

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-9-52131

Buyer ID - Id de l'acheteur
KIN508
CCC No./N° CCC - FMS No./N° VME

- Interior Dimensions: 2030 mm (6'8") wide by 1650 mm (5'5") deep by height to suspended ceiling of 2290 mm (7'6").

Freight Elevator:

- Load Limit: 4545 kg (10000 lb).
- Door Opening: width of 2440 mm (8'0") and a height of 2440 mm (8'0")
- Interior Dimensions: 2440 mm (8'0") wide X 4290 mm (14'1") deep X height of 3050 mm (10'0").

Pallet truck Limit: 2492 kg (5500 lb)

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ANNEX "B"

Pricing Basis

Item #	Description	Lot Price DDP
1	Franklin Tester as outlined in Annex "A"	\$ _____

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ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)

Annex "D"

ADDITIONAL CERTIFICATIONS

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1. Board of Directors

In accordance with Section 1, Integrity Provisions – Bidder, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name - _____

2. Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Offerors are required to have a Procurement Business Number (PBN) before Contract award.

Procurement Business Number - _____

Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.