



**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

E-mail/Courriel : mark.walton@tpsgc-pwgsc.gc.ca

Title - Sujet Deluxe Glow Wire Tester	
Solicitation No. - N° de l'invitation H4091-162742/A	Date 2016-06-27
Client Reference No. - N° de référence du client H4091-162742	
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-903-71144	
File No. - N° de dossier pv903.H4091-162742	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-08-08	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Walton, Mark	Buyer Id - Id de l'acheteur pv903
Telephone No. - N° de téléphone (873) 469-3185 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: HEALTH CANADA 1800 WALKLEY RD Product Safety Laboratory OTTAWA Ontario K1A 0K9 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

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

Delivery Required - Livraison exigée 2017-03-31	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



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Destination	Unit Price/Prix unitaire FOB/FAM	Plant/Usine	Delivery Req. Livraison Req.	Del. Offered Liv. offerte
1	Deluxe Glow Wire Tester T4-08 , Automated, in accordance with the mandatory performance specifications at Annex "A"	H4091	H1020	1	Each	\$	\$		2017-03-31	

DELUXE GLOW WIRE TESTER

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement applicable to the Bid Solicitation.

1.2 Requirement

The Contractor must provide the items detailed under the "Line Item Detail", and further detailed in the Mandatory Specifications at 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 **fifteen (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 North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT)."

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](#) (2016-04-04) 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: sixty (60) days
- Insert: ninety (90) days

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 **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, Canada**.

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

- Section I: Technical Bid – Two (2) hard copies
- Section II: Financial Bid - One (1) hard copy
- Section III: Certifications – At least one (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.

3.1.1 Manuals

Manuals are considered a part of the equipment. One (1) operator and one (1) service manual (paper or CD-ROM format), in English or French, must be sent together with the equipment.

3.1.2 Service

Purchase of the system must include: regional technical support; technical phone support; support via the Internet; and support via a fax-back document system.

Response for service shall be within 24 hours or less.

Also, provide the following with your bid:

- a) Location of available service facilities (after sales service and repair). List the service facilities closest to the destination.
-
-

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H4091-162742/A
Client Ref. No. - N° de réf. du client
H4091-162742

Amd. No. - N° de la modif.
File No. - N° du dossier
pv903.H4091-162742

Buyer ID - Id de l'acheteur
pv903
CCC No./N° CCC - FMS No./N° VME

b) Locations of available replacement parts from consumables to major components.

c) Response time re: service calls, and escalation schedule, i.e. (how many days with no resolution to a problem until a more experienced person is called in, and from which location).

d) List the frequency of routine maintenance visits provided by a qualified service technician during the warranty period, if applicable and included in the price.

3.1.3 Product(s) Offered

The Bidder must indicate the make and model number of the products offered (identify specific components which make up the system):

Name of Manufacturer: _____

Model/Part Number: _____

Literature attached: Yes (____) No (____)

3.1.4 Delivery

While delivery is requested by **March 31, 2017**, the best delivery that could be offered by the Bidder is _____.

3.1.5 Software Updates *(If applicable)*

The contractor shall provide all software updates and new releases to the purchaser for a period of one (1) year following the acceptance, at no additional cost.

Note: The word "updates" means all enhancements, extensions or other modifications to the software. The word "releases" means enhancements or modifications to the software or new modules or supplementary modules that function in conjunction with the software, that represent the next generation of software, and which the Contractor has decided to make available to its customers usually for an additional charge.

3.1.6 Contacts

Bidders are requested to provide the following: Information pertaining to Article 5.3 Contractor Representatives under Part 6, Resulting Contract Clauses.

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 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

1. PRICING BASIS (MANDATORY): Prices must be firm, DDP Delivered Duty Paid.

2. ABILITY TO MEET THE TECHNICAL REQUIREMENT (MANDATORY):

a) **For Items Defined by Specifications:** The bidder is requested to cross reference the mandatory technical criteria contained herein to their supporting technical documentation.

b) **Provision of Supporting Technical Documentation:** Supporting technical documentation for the stores offered shall be provided with the bid at time of bid closing. Technical brochures or technical data MUST be provided to verify compliancy to the technical mandatory specifications.

3. COMPLIANCE WITH THE TERMS AND CONDITIONS OF THIS REQUEST FOR PROPOSAL (MANDATORY)

4. FOR CANADIAN SUPPLIERS ONLY: Please note that the requirements of the Federal Contractors Program for Employment Equity may apply - see herein. (MANDATORY)

4.1.1.1 Mandatory Technical Criteria

- Technical Compliance
- Compliance with Pricing Basis
- Proposal complete and signed
- Employment Equity

4.1.2 Financial Evaluation

- SACC Manual Clause [A0222T](#) (2014-06-26), Evaluation of Price

4.2 Basis of Selection

4.2.1 SACC Manual Clauses

SACC Reference	Title	Date
A0069T	Basis of Selection	2007-05-25

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 [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 with its bid the required documentation, as applicable, 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 website](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.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).

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

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide the items detailed under the "Line Item Detail", and further detailed in the Mandatory Specifications at Annex "A".

6.2.1 Service

- a) Location of available service facilities (after sales service and repair). Service facilities closest to the destination.
- b) Locations of available replacement parts from consumables to major components.
- c) Response time re: service calls, and escalation schedule, i.e. (how many days with no resolution to a problem until a more experienced person is called in, and from which location).
- d) List the frequency of routine maintenance visits provided by a qualified service technician during the warranty period, if applicable and included in the price.

6.2.2 Manuals

Manuals are considered a part of the equipment. One (1) operator and one (1) service manual (paper or CD-ROM format), in English or French, must be sent together with the equipment.

6.2.3 Software Updates

The contractor shall provide all software updates and new releases to the purchaser for a period of one (1) year following the acceptance, at no additional cost.

Note: The word "updates" means all enhancements, extensions or other modifications to the software. The word "releases" means enhancements or modifications to the software or new modules or supplementary modules that function in conjunction with the software, that represent the next generation of software, and which the Contractor has decided to make available to its customers usually for an additional charge.

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](#) Supplemental General Conditions - Hardware Purchase, Lease and Maintenance (2015-04-01);
- [4003](#) Supplemental General Conditions - Licensed Software (2010-08-16) and
- [4004](#) Supplemental General Conditions - Maintenance and Support Services for Licensed Software (2013-04-25)

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before (*date to be inserted at contract award*).

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Mark Walton
Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Commercial Consumer Products Directorate

Scientific, Medical, and Photographic Division "PV"
6A2, Phase III, Place du Portage,
11 Laurier Street,
Gatineau, Quebec, Canada K1A 0S5
Telephone: 873-469-3185
Facsimile: 819-956-3814
E-mail address: mark.walton@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 Technical Authority: To be identified at contract award

The Technical 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 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 Contractor's Representative

The telephone number, with extension if applicable, of the person(s) responsible for:

General enquiries

Name: _____

Telephone No. _____

Facsimile No: _____

E-mail address: _____

Delivery Follow-up

Name: _____

Telephone No. _____

Facsimile No: _____

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 the firm unit or lot price(s), as specified in the contract, for a cost of \$ (*amount to be inserted 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 Reference	Title	Date
H1000C	Single Payment	2008-05-12

6.6.3 Electronic Payment of Invoices – Contract

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

To be completed at contract award, if applicable.

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. Instruction to contracting officers: Use the following paragraph when invoices must be accompanied by supporting documents. The documents listed are examples only and must be revised to reflect the requirement. Delete this paragraph if no supporting documents are required.

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.

6.9 Applicable Laws

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

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 [4001](#) Supplemental General Conditions - Hardware Purchase, Lease and Maintenance (2015-04-01); [4003](#) Supplemental General Conditions - Licensed Software (2010-08-16) and [4004](#) Supplemental General Conditions - Maintenance and Support Services for Licensed Software (2013-04-25)
- (c) the general conditions [2010A](#) (2016-04-04);
- (d) the Contractor's bid dated _____

6.11 SACC Manual Clauses

SACC Reference	Title	Date
A2000C	Foreign Nationals (Canadian Contractor)	2006-06-16
A9068C	Government Site Regulations	2010-01-11
B1501C	Electrical Equipment	2006-06-16

6.12 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and Delivered Duty Paid (DDP) Ottawa, Ontario, Incoterms 2000 for shipments from a commercial contractor.

ANNEX "A"

MANDATORY SPECIFICATIONS
Automated Glow-wire Tester

The Health Canada Product Safety Laboratory is looking to acquire an Automated Glow-wire Tester to evaluate the flammability and ignitability of components and materials in accordance with IEC 60695-2-10.

NOTE: BIDDERS MUST INDICATE CLEARLY WHERE THEIR BID OR ANY ATTACHMENT THERETO STATES THAT THE ITEM(S) OFFERED MEET(S) EACH OF THE FOLLOWING MANDATORY SPECIFICATIONS. FAILURE TO DO SO, OR NON-COMPLIANCE WITH ANY OF THEM, WILL RENDER YOUR BID NON-RESPONSIVE. VENDORS MUST CROSS REFERENCE THE MANDATORY TECHNICAL CRITERIA IN A CONCISE FORMAT BY USING PAGE, PARAGRAPH(S) & SUB-PARAGRAPHS AS APPLICABLE TO THEIR SUPPORTING TECHNICAL DOCUMENTATION.

1.1 The automated Glow-wire tester must be constructed in accordance with the International Electrotechnical Commission (IEC) 60695-2-10 2013 Fire hazard testing – Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure (photocopy of certificate will suffice); **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.2 The instrument shall be designed so that the glow-wire is kept in a horizontal plane; **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.3 The instrument shall have a processor that corrects all changes in heating current so that it remains stable during the test; **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.4 The instrument shall be designed so that burning or glowing particles falling from the test specimen are able to fall without obstruction onto a specified layer to minimize the possibility of the spread of fire (this layer is a single layer of wrapping tissue resting on, and in close contact with the upper surface of a wooden board); **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.5 The instrument shall have a wooden board (flat and smooth and having a minimum thickness of 10 mm) that can be positioned at a distance of 200 mm ± 5 mm below the place where the glow-wire is applied to the test specimen; **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.6 The instrument shall be supplied with wrapping tissue (as specified in ISO 4046-4:2002 Clause 4.215) with a mass per unit area of between 12 g/m² and 30 g/m²; **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.7 The glow-wire shall be serviceable and constructed of Nickel/Chromium (> 77% Ni/20 ± 1% Cr) wire; having an overall diameter of 4,00 mm +/-0.07 mm (before bending); **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.8 The instrument shall be supplied with silver foil for calibration of the temperature measuring system; **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.9 The instrument shall have a power supply that has a stabilized voltage source (+/- 2% RMS). The test circuit shall contain a current measuring device which indicates a true RMS value with a maximum error of 1.0%; **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.10 The instrument shall have a timing device with a resolution of 0.2 s or less;
REFERENCE IN CONTRACTOR'S PROPOSAL: _____

1.11 The instrument shall be motor driven with a rate of approach and withdrawal $10\text{mm/s} \leq v \leq 25\text{mm/s}$ and a controlled application force of $0.95\text{ N} \pm 0.10\text{ N}$ for a duration of $30\text{ s} \pm 1\text{ s}$. This force shall be applied and maintained at this value when the glow-wire or the test specimen is automatically moved horizontally one towards the other during testing;
REFERENCE IN CONTRACTOR'S PROPOSAL: _____

1.12 The penetration of the tip of the glow-wire into and through the test specimen shall be limited to $7\text{mm} \pm 0.5\text{ mm}$; **REFERENCE IN CONTRACTORS PROPOSAL:** _____

1.13 The instrument shall have all electrical connections capable of carrying the current without affecting the performance or long-term stability of the circuit;
REFERENCE IN CONTRACTOR'S PROPOSAL: _____

1.14 The electrical connections of the instrument shall provide a sufficient contact area (60 mm^2 for glow-wire to stud connections at each end); and be properly secured (screwed, soldered, or brazed) between the glow-wire and stud connections.
REFERENCE IN CONTRACTOR'S PROPOSAL: _____

1.15 The instrument shall have thermocouple wires suitable for continuous operation at temperatures up to 960°C ; **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.16 The instrument shall have a glow-wire tip that can be heated and stabilized to the following temperatures:

Test Temperatures °C	Tolerances °C
550	± 10
600	± 10
650	± 10
700	± 10
750	± 10
800	± 15
850	± 15
900	± 15
960	± 15

REFERENCE IN CONTRACTORS PROPOSAL: _____

1.17 The instrument shall have scales for the depth of penetration and flame height reading with zero point adjustments; **REFERENCE IN CONTRACTOR'S PROPOSAL:** _____

1.18 The instrument shall be constructed of material that will protect against overheating, short circuit and break off in the circuit;
REFERENCE IN CONTRACTOR'S PROPOSAL: _____

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1.19 Shall be supplied with a remote control for the operation of the instrument;
REFERENCE IN CONTRACTOR'S PROPOSAL: _____

1.20 The instrument shall be supplied with an ISO/IEC 17025 certificate of calibration;
REFERENCE IN CONTRACTOR'S PROPOSAL: _____

1.21 The instrument shall be approved by an agency that has been accredited by the Standards Council of Canada to certify electrical products.
REFERENCE IN CONTRACTOR'S PROPOSAL: _____

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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)