



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving
- PWGSC

Voir dans le document/

See herein

NA

Québec

NA

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

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

TPSGC/PWGSC

601-1550, Avenue d'Estimauville

Québec

Québec

G1J 0C7

Title - Sujet Vickers Knoop Micro Hardness Tester	
Solicitation No. - N° de l'invitation 31206-212383/A	Date 2020-11-12
Client Reference No. - N° de référence du client 31206-212383	
GETS Reference No. - N° de référence de SEAG PW-\$QCN-035-18029	
File No. - N° de dossier QCN-0-43134 (035)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2020-12-03 Heure Normale du l'Est HNE	
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: Deslauriers, Annie	Buyer Id - Id de l'acheteur qcn035
Telephone No. - N° de téléphone (418) 571-5295 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Conseil National de Recherches du Canada Site Saguenay 501 Boulevard Université Est, Porte 6, via rue Newton Chicoutimi, Québec G7H 8C3	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	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

Vickers and Knoop micro hardness tester with motorised stage and acquisition software

National Research Council of Canada (NRC) Saguenay Site

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	2
1.1 REQUIREMENT	2
1.2 DEBRIEFINGS	2
1.3 EPOST CONNECT SERVICE	2
PART 2 - BIDDER INSTRUCTIONS	3
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	3
2.2 SUBMISSION OF BIDS	3
2.3 ENQUIRIES - BID SOLICITATION	3
2.4 APPLICABLE LAWS	4
2.5 BID CHALLENGE AND RECOURSE MECHANISMS	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 AND ADDITIONAL INFORMATION	7
5.1 CERTIFICATIONS REQUIRED WITH THE BID	7
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	7
PART 6 - RESULTING CONTRACT CLAUSES	9
6.1 SECURITY REQUIREMENTS	9
6.2 REQUIREMENT	9
6.3 STANDARD CLAUSES AND CONDITIONS	9
6.4 TERM OF CONTRACT	9
6.5 AUTHORITIES	10
6.6 PAYMENT	11
6.7 INVOICING INSTRUCTIONS	12
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION	12
6.9 APPLICABLE LAWS	12
6.10 PRIORITY OF DOCUMENTS	12
6.11 SACC MANUAL CLAUSES	13
6.12 DISPUTE RESOLUTION	13
ANNEX A - STATEMENT OF REQUIREMENT	14
ANNEX B - BASIS OF PAYMENT	18
ANNEX C - ELECTRONIC PAYMENT INSTRUMENTS	20
ANNEX D - MANDATORY TECHNICAL CRITERIA	21
ANNEX E - ORIGINAL EQUIPMENT MANUFACTURER CERTIFICATION FORM (OEM)	22

Solicitation No. - N° de l'invitation
31206-212283/A
Client Ref. No. - N° de réf. du client-
31206-212283

Amd. No. - N° de la modif -
File No. - N° du dossier
QCN-0-43134

Buyer ID - Id de l'acheteur
QCN035
CCC No./N° CCC - FMS No./N° VME

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 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](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/25>

2.1.1 SACC Manual Clauses

[B1000T](#) (2014-06-26), Condition of material – Bid

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/B/B1000T/3>

2.2 Submission of Bids

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:

PWGSC Québec Region Bid Receiving Unit

Only bids submitted using epost Connect service will be accepted. The Bidder must send an email requesting to open an epost Connect conversation to the following address:

TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.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. <https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect>

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

Bids transmitted by facsimile or hardcopy to PWGSC will not be accepted.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) 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 Quebec.

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.

2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

The Bidder must submit its bid electronically 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

Bids transmitted by facsimile or hardcopy will not be accepted.

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

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](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/C/C3011T/5)
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/C/C3011T/5>

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

The technical evaluation will be based on the mandatory technical criteria detailed in Annex D.

Bidders must demonstrate each of these mandatory technical criteria with documents and/or brochures and/or technical drawings, which must be submitted with their proposal.

Bidders should complete the table in Annex D and include it with their proposal.

4.1.1 Financial Evaluation

- 1. Bidders must submit firm prices, customs duties and excise taxes included, and Applicable Taxes excluded.
- 2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
- 3. Bidders must provide prices Delivered Duty Paid (DDP) Chicoutimi (Quebec) Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on a DDP basis.

4.2 Basis of Selection

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

5.2.3 OEM Certification (Annex E)

1. Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit the OEM's certification regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). No Contract will be awarded to a Bidder who is not the OEM of the hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.
2. If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.
3. For the purposes of this bid solicitation, OEM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

PART 6 - RESULTING CONTRACT CLAUSES

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

Notice: Numbering will be revised at contract award.

6.1 Security Requirements

There is no security requirement applicable to the Contract.

6.2 Requirement

The contractor must provide and deliver an automatic and programmable precision cut-off machine in accordance with the requirement described in 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](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/3/2010A/19) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/3/2010A/19>

6.3.2 Supplemental Conditions

[4001](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/4/4001/6) (2015-04-01) Hardware Purchase, Lease and Maintenance.

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/4/4001/6>

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from the date of Contract to June 30, 2023 inclusive.

6.4.2 Delivery Date

All the deliverables must be received within twelve (12) weeks following Contract Award.

6.4.2.1 Optional Deliverables

All the optional deliverables must be received within twelve (12) weeks after receipt of an amendment to the contract to exercise the option.

6.4.3 Training Period

The training must be given no later than fifteen (15) working days after the delivery of goods.

6.4.4 Optional Goods and/or Services

The Contractor grants Canada an irrevocable option to acquire the goods, services, or both, described in Annex "A" of the Contract under the same terms and conditions and at the prices and/or rates set out in the Contract. This option may only be exercised by the Contracting Authority and will be confirmed, for administrative purposes only, by an amendment to the Contract.

The Contracting Authority may exercise the option at any time over a period of twenty-four (24) months following the contract award by sending a written notice to the Contractor.

6.4.5 Delivery Points

Delivery of the requirement will be made to the delivery points identified in Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name : Annie Deslauriers
Title : Procurement Officer
Public Works and Government Services Canada
Acquisitions Branch
Address : 1550 D'Estimauville Avenue, Quebec City, Quebec G1J0C7
Telephone : 418-571-5295
Facsimile : 418-648-2209
E-mail address : annie.deslauriers@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

The Technical Authority for the Contract is: (will be added to the contract)

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

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

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.

Solicitation No. - N° de l'invitation
31206-212283/A
Client Ref. No. - N° de réf. du client-
31206-212283

Amd. No. - N° de la modif -
File No. - N° du dossier
QCN-0-43134

Buyer ID - Id de l'acheteur
QCN035
CCC No./N° CCC - FMS No./N° VME

6.5.3 Client Administrative Authority

The Client Administrative Authority for the Contract is: (will be added to the contract)

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

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

6.5.4 Contractor's Representative

Name and telephone number of the person responsible for:

Contract Manager:

Name: _____
Title: _____
Telephone No.: _____
Facsimile No.: _____
E-mail Address: _____

6.6 Payment

6.6.1 Basis of Payment – Firm Lot Price and firm unit price

i. Initial Contract

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price as specified in Annex B for a cost of _____ \$ (will be completed at contract award). Customs duties are included, and Applicable Taxes are extra.

ii. Optional goods and/or services

For optional goods and/or services, in consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price as specified in Annex B. 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 Terms of payment

SACC Manual Clause [H1001C](#) (2008-05-12), Multiple Payments.

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/H/H1001C/2>

6.6.3 Electronic Payment of Invoices – Contract *(will be completed at contract award)*

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).

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.

6.9 Applicable Laws

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

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 Conditions 4001, (2015-04-01) Hardware Purchase, Lease and Maintenance;
- (c) the general conditions 2010A (2018-06-21), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Statement of Requirement;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated _____ *(will be completed at contract award)*

6.11 SACC Manual Clauses

A9068C (2010-01-11), Government Site Regulations
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/A/A9068C/2>

B1501C (2018-06-21), Electrical equipment
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/B/B1501C/2>

B7500C (2006-06-16), Excess Goods
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/B/B7500C/1>

D9002C (2007-11-30), Incomplete Assemblies
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/D/D9002C/3>

G1005C (2016-01-28), Insurance – No specific requirement
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/G/G1005C/3>

6.12 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

ANNEX A – STATEMENT OF REQUIREMENT

1.0 Object

The National Research Council of Canada (NRC), Saguenay site, is looking to acquire a Vickers and Knoop micro hardness tester with a motorized stage and acquisition software.

NRC's advanced manufacturing positioning in the automotive and aerospace sectors requires accurate and reproducible hardness measure of various multi-layer materials and high-value-added parts.

The scope of work here includes supply, transport, installation, documentation and training.

The supplier must deliver an (1) a Vickers and Knoop micro hardness tester with a motorized stage and acquisition software including all characteristics of section 3.0 Technical specifications of the deliverable.

Option of accessories demonstrated in section 4.0 Technical specifications of optional deliverables.

2.0 Constraints

Not applicable

3.0 Technical specifications of the deliverable

The equipment delivered must meet the following specifications:

- 3.1 **The micro hardness must be equipped with a minimum of six (6) positions motorized turret including:**
 - 3.1.1 One (1) Vickers indenter meeting the criteria of ISO 6507 and ASTM E92.
 - 3.1.2 One (1) Knoop indenter meeting the criteria of ISO 4545 and ASTM E92.
 - 3.1.3 Automatic alignment of Vickers indenter to Knoop during mode changes.
 - 3.1.4 Three (3) objectives:
 - 3.1.4.1 One (1) objective of 2.5x or 5x;
 - 3.1.4.2 One (1) objective of 10x;
 - 3.1.4.3 One (1) objective of 40x or 50x.
 - 3.1.5 Load cells corresponding to these values:
 - 3.1.5.1 Required load capacity (gram-force): 10 – 25 – 50 – 100 – 200 – 300 – 500 – 1000 – 2000 – 3000 – 5000 – 10000 – 20000 – 30000.
 - 3.1.5.1.1 Vickers hardness:
 - 3.1.5.1.1.1 The Vickers hardness mode device shall permit the application of loads of 10 gf - 25 gf - 50 gf - 100 gf - 200 gf - 300 gf - 500 gf - 1,000 gf - 2,000 gf - 3,000 gf - 5,000 gf - 10,000 gf - 20,000 gf - 30,000 gf.
 - 3.1.5.1.2 Knoop hardness:
 - 3.1.5.1.2.1 The device in Knoop hardness mode must allow the application of loads of 10 gf - 25 gf - 50 gf - 100 gf - 200 gf - 300 gf - 500 gf - 1000 gf.

- 3.1.5.2 The equipment in Vickers Harness mode must have a direct calibration for loads of HV0.01 – HV0.025 – HV0.05 – HV0.1 – HV0.2 – HV0.3 – HV0.5 – HV1 – HV2 – HV3 – HV5 – HV10 – HV20 – HV30
- 3.1.5.3 The equipment in Knoop Hardness mode must have a direct calibration for loads of HK0.01 – HK0.025 – HK0.05 – HK0.1 – HK0.2 – HK0.3 – HK0.5 – HK1.0

3.2 The micro hardness tester must be equipped with:

- 3.2.1 A collision detection system;
- 3.2.2 An integrated LED type light source;
- 3.2.3 An integrated overview camera or a stitching capacity;
- 3.2.4 An indent reading camera of a minimum of 5 MP.
- 3.2.5 A motorized stage with:
 - 3.2.5.1 An effective XY axis displacement of a minimum of 200 mm x 100mm (the maximum size of our samples is 160 mm x 100 mm);
 - 3.2.5.2 An effective Z axis displacement of a minimum of 100 mm.

3.3 The micro hardness tester must be associated to an acquisition software including:

- 3.3.1 One (1) PC computer:
 - 3.3.1.1 Windows 10 or better;
 - 3.3.1.2 64 bits version.
- 3.3.2 Two (2) monitors of a minimum of 22 inches (Dual mode monitoring).
- 3.3.3 One (1) acquisition software including:
 - 3.3.3.1 Acquisition and stitching of:
 - 3.3.3.1.1 Sample surface of a minimum of 50 mm x 50 mm.
 - 3.3.3.2 Multiple menu navigation.
 - 3.3.3.3 Dwell time of 5 à 99 seconds.
 - 3.3.3.4 Automatic recognition functions:
 - 3.3.3.4.1 Of the objective;
 - 3.3.3.4.2 Of the load cell;
 - 3.3.3.4.3 Of the XYZ stage position.
 - 3.3.3.5 Automatic edge detection.
 - 3.3.3.6 Autofocus functions.
 - 3.3.3.7 Automatic light intensity adjustment.

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- 3.3.3.8 Programming of indentation tolerances.
 - 3.3.3.9 Programming of indentation patterns:
 - 3.3.3.9.1 One sample surface of a minimum of 200 mm x 100 mm.
 - 3.3.3.10 Step size programming between two indentions:
 - 3.3.3.10.1 Linear pattern;
 - 3.3.3.10.2 Multi-linear pattern;
 - 3.3.3.10.3 Matrix pattern;
 - 3.3.3.10.4 Point by point modification within a pattern.
 - 3.3.3.11 Indents and Measurements:
 - 3.3.3.11.1 Automatic recognition and data saving of the charge;
 - 3.3.3.11.2 Automatic recognition and data saving of the XY coordinates;
 - 3.3.3.11.3 In manual mode;
 - 3.3.3.11.4 In automatic mode with autofocus for measurement mode;
 - 3.3.3.11.5 Indentation mode only;
 - 3.3.3.11.6 Measurement mode only;
 - 3.3.3.11.7 Re-measurement or deletion of one or more indent measurement.
 - 3.3.4 Data post treatment:
 - 3.3.4.1 In graphic mode;
 - 3.3.4.2 In grid.
 - 3.3.5 Indentation measurements data saving and exporting:
 - 3.3.5.1 Diagonal measurements;
 - 3.3.5.2 Individual values (Vickers or Knoop);
 - 3.3.5.3 Individual coordinates in XY axis;
 - 3.3.5.4 MS Excel and CSV.
 - 3.4 The Vickers and Knoop micro hardness tester must meet ASTM E384 and AN ISO 6507 (Vickers) and 4545 (Knoop).
 - 4. SPECIFICATIONS OF THE OPTIONAL DELIVERABLES**
 - 4.1 The submission must include these optional items:**
 - 4.1.1 Certified standard for Knoop HK 0.50-400;
 - 4.1.2 Certified standard for Vickers HV 0.50-350;
 - 4.1.3 40 mm diameter sample holder;
 - 4.1.4 50 mm diameter sample holder;
 - 4.1.5 Multiple sample holder of at least six (6) samples including space for one certified standard.

5.0 Documentation

- 5.1 User manual including the operational risks and Health and Safety instructions.
- 5.2 If available, the service and maintenance manuals should be included at the installation of the equipment.
- 5.3 If available, the electrical diagrams and schematic manuals should be included at the installation of the equipment.
- 5.4 Documentation must be provided in English in both paper and electronic format. A French version should be provided, if available.

6.0 Other Requirements

- 6.1 CSA certification required.

7.0 Delivery

- 7.1 The system must be delivered and installed at the following address:

NRC –Saguenay site
501 University Boulevard East, Door 6, via Newton Street
Chicoutimi, QC, G7H 8C3

8.0 Installation and commissioning

- 8.1 The Supplier shall perform installation and commissioning on the NRC-Saguenay site.
- 8.2 Installation and commissioning shall take place within a maximum of fifteen (15) working days following delivery to the NRC-Saguenay site.

9.0 Training:

- 9.1 A complete training, in French, of about seven (7) hours must be dispensed during day time to a minimum of three (3) users at commissioning. The training must cover the following elements:
 - Operation;
 - Programming and other functions;
 - Maintenance;
 - Labour, tooling, travel, travel time and living expenses must be included;
 - Training must take place within a maximum of fifteen (15) working days following delivery to the NRC-Saguenay site.

10.0 Client responsibility

10.1 At delivery:

- 10.1.1 Unloading and setting up:
- 10.1.2 The client, the NRC-Saguenay site will be responsible for unloading and disposal of the shipping material.

10.2 At installation:

- 10.2.1 Services: Water, air, electricity and building modifications:
- 10.2.2 The Supplier should specify and indicate all required services (water-air-electricity) and special requirements in its proposal and provide connections as required.
- 10.2.3 The NRC-Saguenay site will be responsible for providing water, air, electricity and any necessary modifications required to the equipment.

Solicitation No. - N° de l'invitation
31206-212283/A
Client Ref. No. - N° de réf. du client-
31206-212283

Amd. No. - N° de la modif -
File No. - N° du dossier
QCN-0-43134

Buyer ID - Id de l'acheteur
QCN035
CCC No./N° CCC - FMS No./N° VME

ANNEX B – BASIS OF PAYMENT

B1. Firm Part

Item	Description	Qty	Unit	Lot Firm Price
1)	VICKERS AND KNOOP HARDNESS TESTER with motorised stage and acquisition software (In accordance with point 3 of Annex A) <ul style="list-style-type: none">Brand Name offered : _____Model offered : _____	1	lot	_____ \$
2)	User manual and maintenance manual (In accordance with point 5 of Annex A)	1	lot	_____ \$
3)	Delivery (In accordance with point 7 of Annex A)	1	lot	_____ \$
4)	Installation (In accordance with point 8 of Annex A)	1	lot	_____ \$
5)	Training (In accordance with point 9 of Annex A)	1	lot	_____ \$
TOTAL (B1) (CAD) = (Applicable taxes not included)				_____ \$

Solicitation No. - N° de l'invitation
31206-212283/A
Client Ref. No. - N° de réf. du client-
31206-212283

Amd. No. - N° de la modif -
File No. - N° du dossier
QCN-0-43134

Buyer ID - Id de l'acheteur
QCN035
CCC No./N° CCC - FMS No./N° VME

B2. Optional Part

Item	Description	Qty	Unit	Unit Firm Price	Total Price
1)	Certified Knoop standard HK 0.50 – 400 (In accordance with point 4 of Annex A)	2	ea	_____ \$	_____ \$
2)	Certified Vickers standard HV 0.50 – 3.50 (In accordance with point 4 of Annex A)	2	ea	_____ \$	_____ \$
3)	Single sample holder 40 mm (In accordance with point 4 of Annex A)	2	ea	_____ \$	_____ \$
4)	Single sample holder 50 mm (In accordance with point 4 of Annex A)	2	ea	_____ \$	_____ \$
5)	Multiple sample holder of at least six (6) samples including space for one certified standard. (In accordance with point 4 of Annex A)	2	ea	_____ \$	_____ \$
6)	Delivery of Optional Deliverables DDP (Quebec, Canada), including customs duties, handling, delivery.	2	ea	_____ \$	_____ \$
TOTAL (B2) (CAD) = (Applicable taxes not included)					_____ \$
PROPOSAL EVALUATION COST (B1 + B2) =					_____ \$
Note: A maximum of two (2) amendments to the contract may be made to acquire the optional goods. Items may be acquired in whole or in part only. Delivery charges will be applied to each delivery, if applicable.					

Solicitation No. - N° de l'invitation
31206-212283/A
Client Ref. No. - N° de réf. du client-
31206-212283

Amd. No. - N° de la modif -
File No. - N° du dossier
QCN-0-43134

Buyer ID - Id de l'acheteur
QCN035
CCC No./N° CCC - FMS No./N° VME

ANNEX C - 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).

ANNEX D – MANDATORY TECHNICAL CRITERIA

VICKERS AND KNOOP MICRO HARDNESS TESTER WITH MOTORISED STAGE AND ACQUISITION SOFTWARE		
MANDATORY TECHNICAL CRITERIA		REFERENCE
		(should indicate the reference to the technical documentation included in Bid or indicate the exact information) Title of documents, as well as page and paragraph numbers
A	<p>The micro hardness must be equipped with a minimum of six (6) positions motorized turret including:</p> <p>A1 One (1) Vickers indenter meeting the criteria of ISO 6507 and ASTM E92;</p> <p>A2 One (1) Knoop indenter meeting the criteria of ISO 4545 and ASTM E92;</p> <p>A3 One (1) objective of 2.5x or 5x;</p> <p>A4 One (1) objective of 10x;</p> <p>A5 One (1) objective of 40x or 50x;</p> <p>A6 Required load cells capacity (gram-force): 10 gf – 30 000 gf.</p>	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
B	<p>The micro hardness must be associated to an acquisition software including:</p> <p>B1 Automatic recognition functions:</p> <ul style="list-style-type: none"> • Of the objective; • Of the load cell; • Of the XYZ stage position. <p>B2 Programming of indentation patterns:</p> <ul style="list-style-type: none"> • One sample surface of a minimum of 200 mm x 100 mm. <p>B3 Indentation and measurements:</p> <ul style="list-style-type: none"> • In manual mode; • In automatic mode with autofocus for the measurements. 	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

Solicitation No. - N° de l'invitation
31206-212283/A
Client Ref. No. - N° de réf. du client-
31206-212283

Amd. No. - N° de la modif -
File No. - N° du dossier
QCN-0-43134

Buyer ID - Id de l'acheteur
QCN035
CCC No./N° CCC - FMS No./N° VME

ANNEX E – ORIGINAL EQUIPMENT MANUFACTURER CERTIFICATION FORM (OEM)

Original Equipment Manufacturer certification form (OEM)

This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.

Name of OEM	_____
Signature of authorized signatory of OEM	_____
Print Name of authorized signatory of OEM	_____
Print Title of authorized signatory of OEM	_____
Address for authorized signatory of OEM	_____
Telephone no. for authorized signatory of OEM	_____
Fax no. for authorized signatory of OEM	_____
Date signed	_____
Solicitation Number	_____
Bidder's name	_____