



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving -
PWGSC
1550, Avenue d'Estimauville
1550, D'Estimauville Avenue
Québec
Québec
G1J 0C7

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

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 Polisseuse Auto Haute Precision	
Solicitation No. - N° de l'invitation W7701-197012/B	Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client W7701-197012	Date 2019-02-01
GETS Reference No. - N° de référence de SEAG PW-\$QCM-017-17606	
File No. - N° de dossier QCM-8-41182 (017)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2019-02-25	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Cloutier, Annabelle	Buyer Id - Id de l'acheteur qcm017
Telephone No. - N° de téléphone (418) 649-2768 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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

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Buyer ID - Id de l'acheteur
QCM-017
CCC No./N° CCC - FMS No./N° VME

**Title: High-precision automated polishing system with polishing fluid dispenser and accessories
Amendment 015**

Included in the present amendment:

1. Modification # 1
-

MODIFICATION # 1

In order to correct an administrative error, the bid solicitation is amended as follows :

DELETE : The bid solicitation, in its entirety.

INSERT : The bid solicitation enclosed at the end of this document.

All other TERMS AND CONDITIONS remain unchanged.

This bid solicitation cancels and supersedes previous bid solicitation number W7701-197012/A dated 2018-11-22 with a closing of 2019-01-08 at 14:00 eastern standard time (EST). A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement applicable.

1.2 Requirement

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

1.3 Debriefings

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

1.4 Trade Agreements

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

1.5 epost Connect service

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<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](#) (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.2 Submission of Bids

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

2.2.1 By using the [epost Connect service provided by Canada Post Corporation](https://www.canadapost.ca/web/en/products/details.page?article=epost_connect_send_a) (https://www.canadapost.ca/web/en/products/details.page?article=epost_connect_send_a)

The email address of PWGSC Quebec region Bid Receiving Unit is:
TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca

NOTE THAT YOU SHOULD NOT SEND YOUR OFFERS DIRECTLY TO THIS EMAIL ADDRESS, BUT PROCEED THROUGH CANADA POST EPOST CONNECT SERVICE. REFER TO THE 2003 STANDARD INSTRUCTIONS (2018-05-22).

2.2.2 Tenders can also be transmitted by fax to 418-648-2209

2.2.3 By mail or in person at:
Bid Receiving Unit
Public Works and Government Services Canada (PWGSC)
1550, Avenue D'Estimauville
Quebec, Quebec G1J 0C7

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority Annabelle.Cloutier@tpsgc-pwgsc.gc.ca no later than seven (7) 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.

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Buyer ID - Id de l'acheteur
QCM-017
CCC No./N° CCC - FMS No./N° VME

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 the province of 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.

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. Bidders must provide their bid in a single transmission. The epost Connect service has the capacity to receive multiple documents, up to 1GB per individual attachment.

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 1 to part 3 of the bid solicitation - Electronic Payment Instruments, to identify which ones are accepted.

If Annex 1 to part 3 of the bid solicitation - Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

3.1.2 Exchange Rate Fluctuation

SACC *Manual* Clause [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 – Mandatory technical criteria

Although Bidders must propose products meeting all mandatory requirements required in Annex A; at the bid closing date, bids will be evaluated on the mandatory technical evaluation criteria listed below. Simply stating that the proposed product complies or that it meets the mandatory requirements is not enough. To demonstrate that their products meet all the mandatory technical evaluation criteria listed below, Bidders must submit bid, proofs of compliance.

Proof of compliance is defined as a document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software.

Bidders should complete the last column of the table, below, using cross-referenced to the proofs of compliance. Bidders should indicate where in the bid the reference material can be found, including the title of the document, and the page and paragraph numbers. The proofs of compliance must provide sufficient detail and explanation to allow evaluation and demonstrate that each mandatory technical evaluation criteria listed, below, is respected.

Unless specified otherwise in the bid solicitation, Canada will evaluate only the documentation provided with a bidder's bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.

	CRITERIA POLISHING SYSTEM	YES	NO	Bidder specifications (Bidder should indicate where in the bid the reference material can be found)
CO1.1	Polishing platen diameter of 8 inches / 20,3 cm			
CO1.2	O-ring drive mechanism			
CO1.3	Range of polishing speeds Minimum value: 10 RPM or lower Maximum value: 300 RPM or higher Increments : 5 RPM or lower			
CO1.4	Vertical polishing progress indicator resolution <= 1µm			
CO1.5	Dual-axis sample position adjustment system <= -2 degrees and >= 10 degrees by increments <= 0.02 degrees			

	CRITERIA DISPENSING SYSTEM	YES	NO	Bidder specifications (Bidder should indicate where in the bid the reference material can be found)
CO2.1	Programmable dispensing duration <= 0.5s and >= 5s. Increments : 0.5s or lower			
CO2.2	Programmable dispensing frequency <= 1/min et >= 10/min. Increments : 1 or lower			
CO2.3	Rinsing feature to prevent system clogging			

4.1.2 Financial Evaluation

SACC Manual Clause [A0222T](#) (2014-06-26) Evaluation of Price
SACC Manual Clause [C2000C](#) (2007-11-30) Taxes – Foreign-based Contractor

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 procurement 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 1 to the part 5 of the bid solicitation)

- a) 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.

- b) If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.
- c) For the purposes of this bid solicitation, EOM 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.

6.1 Security Requirements

There is no security requirement applicable to the Contract.

6.2 Requirement

The Contractor must provide high-precision automated polishing system with polishing fluid dispenser and accessories in accordance with 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.

6.3.1.1 Warranty Period

Section 09 of general conditions [2010A](#) (2018-06-21) is amended by replacing the period of 12 months by 24 months.

All other provisions of the warranty section remain in effect.

6.4 Term of Contract

6.4.1 Period of the Contract

The contract period is from the date of contract award until the end of the warranty period inclusively.

6.4.2 Delivery Date

All the deliverables must be received on or before four (4) weeks after contract awarded.

6.4.5 Delivery Points

Delivery of the requirement will be made to the destination specified below:

Defence Research and Development Canada – Valcartier Research Centre
Building 53
2459 Route de la Bravoure
Quebec, Quebec, Canada, G0A 1R1

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Annabelle Cloutier
Title: Acting procurement officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 1550, avenue D'Estimauville
Quebec, Quebec, Canada, G1J 0C7

Telephone: 418-649-2768
Facsimile: 418-648-2209
E-mail address: Annabelle.Cloutier@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 *(will be completed at contract award)*

The Technical authority for the Contract is:

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 Administrative Authority *(will be completed at contract award)*

The Administrative Authority for the Contract is:

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

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

The administrative authority must receive the original invoice. Any request for payment must be addressed to the administrative authority.

6.5.4 Contractor's Representative *(will be completed at contract award)*

The Contractor's representative is:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: _____

Facsimile: _____

E-mail address: _____

6.6 Payment

If the contract is awarded to a Canadian-based bidder as defined in section 4.1.2 Financial Evaluation, the following clause 6.6.1 applies:

6.6.1 Basis of Payment – Firm lot price *(will be completed at contract award)*

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 \$_____. 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.

If the contract is awarded to a foreign-based bidder as defined in section 4.1.2 Financial Evaluation, the following clause 6.6.1 applies:

6.6.1 Basis of Payment – Firm lot price *(will be completed at contract award)*

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 \$_____. Customs duties are excluded and Applicable Taxes are extra.

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

6.6.2 Single Payment

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

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

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. 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 *(will be completed at contract award)*

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

6.10 Priority of Documents *(will be completed at contract award)*

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 Defence Contract

SACC Manual Clause [A9006C](#) (2012-07-16) Defence Contract

If the contract is awarded to a foreign-based bidder as defined in section 4.1.2 Financial Evaluation, the following clause 6.12 applies:

6.12 Shipping Instructions – Delivery at destination

Goods must be consigned to the destination specified in the Contract and delivered FOB Destination, Canadian customs duties excluded:

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Buyer ID - Id de l'acheteur
QCM-017
CCC No./N° CCC - FMS No./N° VME

Department of National Defence, Defence R&D Canada - Valcartier,
Building 53, 2459, Route de la Bravoure, Quebec City, Quebec.
Canada G3J 1X5,

6.12.1 Customs duties instructions

Customs duties must be done by:

Department of National Defence (DND)

Canadian Material Support Group (Montreal Detachment)

Fax: 1-514-252-2892

Phone: 1-514-252-2777 Ext. 2877

Email: DNDCUSTOMS-MDNDOUANES@FORCES.GC.CA

If applicable, send the North American Free Trade Agreement (NAFTA) Certificate of origin (CoO)
to:

Fax: 1-514-252-2892

Email: DNDCUSTOMS-MDNDOUANES@FORCES.GC.CA

*****IMPORTANT***** - This information as well as the Purchase Order (PO) / contract number must
appear on all packing slips and commercial invoices

ANNEX A - REQUIREMENT

1. TITLE

HIGH-PRECISION AUTOMATED POLISHING SYSTEM WITH POLISHING FLUID DISPENSER AND ACCESSORIES

2. CONTEXT

The analysis of the composition of different materials, whether for materials science, semi-conductor or biology applications, requires the precise preparation of samples for image collection using specialized equipment (e.g. SEM, TEM, AFM). This preparation often requires a high-precision polishing to allow the production of quality images, in particular for cross-section imagery. This document describes the requirements for a system performing such a preparation.

3. ACRONYMS

DRDC	Defense Research and Development Canada
SOR	Statement of Requirement
TA	Technical Authority
AFM	Atomic force microscope
SEM	Scanning electron microscope
TEM	Transmission electron microscope
RPM	Revolutions per minute

4. APPLICABLE DOCUMENTS & REFERENCES

N/A

5. REQUIREMENTS

5.1 High-precision automated polishing system

Required quantity: 1

Specifications	Value
Polishing platen diameter	8 inches / 20,3 cm
O-ring drive mechanism	Included
Range of polishing speeds	Minimal value : 10 RPM or lower Maximal value : 300 RPM or higher Increments : 5 RPM or lower
Rotation direction of the polishing platen	Clockwise and counter clockwise
Real-time vertical polishing progress indicator	Resolution of 1µm or lower
Dual-axis sample position adjustment system	Range of adjustments : - Minimum : -2 degrees or lower - Maximum : +10 degrees or higher Adjustment increments : 0,02 degrees or lower
Automatic sample oscillation	Included Adjustable through 5 speed configurations or more
Automatic sample rotation	Included Adjustable through 5 speed configurations or more

Adjustable additional sample load	Minimum : 0g Maximum : 500g or higher Increments : 100g or higher
Water cooling system with adjustable position and flow, electronically controlled.	Included
The polishing system operating voltages must at least cover a 120-240V range at 60hz.	

5.2 Polishing fluid dipenser system

Required quantity: 1

Specifications	Value
Dispensing start/stop controlled by the polishing system	Included
Polishing fluid dispensing bottles	At least three 16 oz. (480 ml) or more
Aspiration system to prevent dripping at the end of the cycle	Included
Programmable dispensing duration	Minimum : 0,5 second or lower Maximum : 5 seconds or higher Increments : 0,5 second or lower
Programmable dispensing frequency	Minimum : Once per minute or less Maximum : 10 times per minute or more Increments : 1 or lower
Rinsing feature to prevent system clogging	Included

5.3 Accessories

Description	Required unit quantity
Glass surface protection covers for cross-sectioning with appropriate adhesive	150
Additional polishing platen 8 inches / 20,3 cm	2
Diamond polishing film, no adhesive, 8 inches, 30 µm	10
Diamond polishing film, no adhesive, 8 inches, 15 µm	10
Diamond polishing film, no adhesive, 8 inches, 9 µm	10
Diamond polishing film, no adhesive, 8 inches, 6 µm	10
Diamond polishing film, no adhesive, 8 inches, 3 µm	10
Diamond polishing film, no adhesive, 8 inches, 1 µm	10
Diamond polishing film, no adhesive, 8 inches, 0,5 µm	10
Diamond polishing film, no adhesive, 8 inches, 0,1 µm	10
Aluminum Oxide polishing film, no adhesive, 8 inches, 30 µm	10
Aluminum Oxide polishing film, no adhesive, 8 inches, 12 µm	10
Aluminum Oxide polishing film, no adhesive, 8 inches, 9 µm	10
Aluminum Oxide polishing film, no adhesive, 8 inches, 3 µm	10
Aluminum Oxide polishing film, no adhesive, 8 inches, 1 µm	10
Aluminum Oxide polishing film, no adhesive, 8 inches, 0,3 µm	10

Aluminum Oxide polishing film, no adhesive, 8 inches, 0,05 µm	10
Fixture for parallel polishing compatible with SEM 3.1mm mount	1
Fixture for cross-sectioning compatible with SEM 3.1mm mount	1
Rubber application squeegee	1
Colloidal silica suspension 0.04 µm	32 oz. (950 ml)
Adhesive polishing cloth, 8 inches, appropriate for colloidal silica suspension 0.04 µm	10
Adhesive final polishing cloth, 8 inches, appropriate for colloidal silica suspension 0.04 µm	10
Colloidal alumina suspension 0.03 µm	16 oz. (480 ml)
Adhesive polishing cloth, 8 inches, appropriate for colloidal alumina suspension 0.04 µm	10
Adhesive final polishing cloth, 8 inches, appropriate for colloidal alumina suspension 0.04 µm	10
Cleaning micro-organic soap	32 oz. (950 ml)
Polishing hexylene/glycol based lubricant	16 oz. (480 ml)

6. DELIVERABLES

Number	Requirement Reference	Description of the Deliverables	Quantity and Format	Delivery delays
6.1	5.1	The system and all the components required for its operation	1	4 weeks after the contract award.
6.2	5.2	The system and all the components required for its operation	1	4 weeks after the contract award.
6.3	5.3	Every listed accessory	1	4 weeks after the contract award.

ANNEX B – BASIS OF PAYMENT

Art.	Description	Qty	Unit	Firm Unit Price	Total Firm Price per article
1	HIGH-PRECISION AUTOMATED POLISHING SYSTEM In accordance with the specifications described in Annex A	1	EA	_____/EA	_____ \$
2	POLISHING FLUID DISPENSER In accordance with the specifications described in Annex A	1	EA	_____/EA	_____ \$
3	All accessories In accordance with the specifications described in Annex A	1	LOT	_____/LOT	_____ \$
4	<i>If the bid is submitted by a Canadian-based bidder as defined in section 4.1.2 Financial Evaluation, the following applies :</i> FOB destination (Valcartier, Québec, Canada), including handling and delivery. Customs duties and Canadian excise taxes are included. <i>If the bid is submitted by a foreign-based bidder as defined in section 4.1.2 Financial Evaluation, the following applies :</i> FOB destination (Valcartier, Québec, Canada), including handling and delivery. Customs duties and Canadian excise taxes are excluded.	1	LOT	_____/LOT	_____ \$
TOTAL FIRM PRICE (Applicable taxes are not included) =					_____ \$

BID SUBMITTED IN FOREIGN CURRENCY

If the bid is in foreign currency, please specify the currency: _____.

If no foreign currency is specified, Canada will consider the bid to be in Canadian Dollars.

Solicitation No. - N° de l'invitation
W7701-197012/B
Client Ref. No. - N° de réf. du client
W7701-197012

Amd. No. - N° de la modif.
001
File No. - N° du dossier
QCM-8-41182

Buyer ID - Id de l'acheteur
QCM-017
CCC No./N° CCC - FMS No./N° VME

ANNEX 1 TO PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

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

ANNEX 1 TO PART 5 OF THE BID SOLICITATION

OEM Certification

OEM Certification Form

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 _____