



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des
soumissions/Travaux publics et Services
gouvernementaux Canada

See herein for bid submission
instructions/

Voir la présente pour les
instructions sur la présentation
d'une soumission

NA

Ontario

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

Public Works and Government Services / Travaux publics et
services gouvernementaux

Kingston Procurement

Des Acquisitions Kingston

86 Clarence Street, 2nd floor

Kingston

Ontario

K7L 1X3

Title - Sujet Transmission Electron Microscope	
Solicitation No. - N° de l'invitation 01689-210318/A	Date 2020-10-13
Client Reference No. - N° de référence du client 01689-21-0318	
GETS Reference No. - N° de référence de SEAG PW-\$KIN-940-8151	
File No. - N° de dossier KIN-0-54095 (940)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-11-16	Time Zone Fuseau horaire Eastern Standard Time EST
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: Davis, Renee	Buyer Id - Id de l'acheteur kin940
Telephone No. - N° de téléphone (343) 550-7805 ()	FAX No. - N° de FAX (613) 545-8067
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Agriculture and Agri-Food Canada 1391 Sandford Street London, ON N5V 4T3	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into six parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides Bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided;
- Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Requirement, the Basis of Payment and the Electronic Payment Instruments.

1.2 Summary

Agriculture and Agri-Food Canada, has a requirement for the purchase of one (1) Transmission Electron Microscope (TEM) for multiple users with varying experience levels covering a diversity of disciplines. The main interest areas are biological samples, immunology and tomography. Cryogenic electron microscopy is an area of interest as well as correlative light electron microscopy.

Delivery, installation, initial training and on-site training must be completed on or before 31 March 2021.

There is an optional site visit associated with this requirement. Consult Part 2 – Bidder Instructions.

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 epost Connect service

This bid solicitation requires 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.

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

Delete: 60 days
Insert: 120 days

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 Ontario 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.oreceptiondessaoumissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca

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

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 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.

2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

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

2.5 Optional Site Visit

It is recommended that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for the site visit to be held at 1391 Sandford Street, London, ON, N5V 4T3 on 2020-11-02. The site visit will begin at 1:00 p.m. EDT, in room 1081.

Bidders are requested to communicate with the Contracting Authority no later than 2020-11-01 to confirm attendance and provide the name(s) of the person(s) who will attend. Bidders may be requested to sign an attendance sheet. Bidders who do not attend or do not send a representative will not be given an alternative appointment but they will not be precluded from submitting a bid. Any clarifications or changes to the bid solicitation resulting from the site visit will be included as an amendment to the bid solicitation.

2.6 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: Financial Bid
Section II: Certifications

Bids transmitted by facsimile or hardcopy will not be accepted.

Section I: Financial Bid

3.1.1 Bidders must submit their financial bid in accordance with Annex "B", Basis of Payment.

3.1.2 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.

3.1.3 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

Section II: 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 financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Financial Evaluation

4.1.1.1 Mandatory Financial Criteria

Any bid which fails to meet the following mandatory financial criteria will be deemed nonresponsive and will receive no further consideration:

- a) Bids must not contain any alteration to Annex "B" - Basis of Payment, other than the addition of the Manufacturer and Model information for the Item and the Bidder's firm unit pricing for all items. Bidders must provide the manufacturer and model information and the firm unit pricing for the all items in their bid.
- b) Bids must not contain any condition or qualification placed upon the bid.
- c) Pricing must be firm in Canadian currency, excluding applicable taxes, and must not be indexed or tied to an escalation factor.
- d) Pricing must be provided for all items as listed in the Pricing Basis. If the Bidder leaves any price blank, Canada will treat the price as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No Bidder will be permitted to add or change a price as part of this confirmation. Any Bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.

4.1.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, Delivered Duty Paid, Canadian customs duties and excise taxes included.

The Bidder's evaluated price is the sum of the firm unit price for all items in Annex B, Basis of Payment.

4.2 Basis of Selection

A bid must comply with all requirements of the bid solicitation and meet all mandatory financial 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 Integrity 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 specified 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 Additional Certifications Precedent to Contract Award

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

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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.

- a) Must provide proof of CSA or Underwriters' Laboratories of Canada approved certification.

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 "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](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.1.1 Warranty Period

Section 09 (2014-09-25), Warranty, of general conditions 2010A is amended by replacing the period of 12 months by 24 months.

All other provisions of the warranty section remain in effect.

6.3.1.2 Warranty – Modification – General Conditions 2010A

Section 09 entitled Warranty of general conditions 2010A is amended by deleting subsection 2 in its entirety and replacing it with the following:

The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

6.3.2 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
4003 (2010-08-16), Licensed Software; and
4004 (2013-04-25), Maintenance and Support Services for Licensed Software,

apply to and form part of the Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to *[Note to Bidders: Canada will insert information at time of Contract award]*.

6.4.2 Delivery Date

All deliverables must be received on or before 2021-03-31.

6.4.2.1 Shipping Instructions – Delivered Duty Paid

Goods must be consigned and delivered to the destination specified in the contract:
Incoterms 2000 “DDP Delivered Duty Paid” Agriculture & Agri-Food Canada, 1391 Sandford Street,
London, ON, N5V 4T3.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Renee Davis
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address: 86 Clarence St, 2nd Floor
Kingston, Ontario, K7L 1X3
Telephone: 343-550-7805
E-mail address: Renee.Davis@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Project Authority

The Project Authority for the Contract is: *[Note to Bidders: Canada will insert information at time of Contract award]*

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority; however, the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Contractor's Representative *[Note to Bidders: Please fill in required information]*

Name: _____

Title: _____

Address: _____

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CCC No./N° CCC - FMS No./N° VME

Telephone: _____

Facsimile: _____

E-mail address: _____

Procurement Business Number: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex "B" for a cost of _____ *[Note to Bidders: Canada will insert the amount at contract award]*. Customs duties are included and Applicable Taxes are extra.

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

6.6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16), Limitation of Price

6.6.3 Multiple Payments

SACC Manual clause H1001C (2008-05-12), Multiple Payments

6.6.4 Electronic Payment of Invoices – Contract *[Note to Bidders: Canada will insert information at time of 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 Ontario.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
- (c) the supplemental general conditions 4003 (2010-08-16), Licensed Software;
- (d) the supplemental general conditions 4004 (2013-04-25), Maintenance and Support Services for Licensed Software;
- (e) 2010A (2020-05-28), General Conditions - Goods (Medium Complexity);
- (f) Annex A, Requirement;
- (g) Annex B, Basis of Payment;
- (h) the Contractor's bid dated _____. *[Note to Bidders: Canada will insert information at time of award]*

6.11 SACC Manual Clauses

SACC Manual clause G1005C (2016-01-28), Insurance – No Specific Requirement

6.12 Inspection and Acceptance

The Project Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of Annex "A" and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.13 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.

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-
- (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"

REQUIREMENT

1. Overview:

This transmission electron microscope (TEM) is intended for multiple users with varying experience levels covering a diversity of disciplines. The main interest areas are biological samples, immunology and tomography. Cryogenic electron microscopy is an area of interest as well as correlative light electron microscopy. Therefore this equipment must be of a flexible design that is upgradeable and that can accommodate various hardware additions that would allow options for different techniques.

2. Mandatory Specifications:

2.1 Power Requirement

- 2.1.1 The microscope and related equipment must run on either single phase 220/240 volt, 50-60 Hz or single phase 110/120 volt, 50-60 Hz.

2.2 Accelerating Voltage

- 2.2.1 Voltage range must be adjustable from 40 kV (or less) to a maximum of 120 kV.

2.3 Electron Source

- 2.3.1 The Wehnelt assembly must be suitable for tungsten filaments and LaB6 cathodes and must have LaB6 installed.

2.4 System Functions

- 2.4.1 System must have a method to apply a low/minimum dose for beam sensitive samples;
- 2.4.2 System must create image montages through image collection and automated stitching;
- 2.4.3 The microscope must be supplied with the required hardware and software to perform 3D tomography;
- 2.4.4 The microscope must be supplied with the required hardware and software to perform single particle analysis;
- 2.4.5 The microscope must be supplied with the required hardware and software to perform micro electron diffraction.

2.5 Resolution

- 2.5.1 Point to point resolution must be a minimum of 0.4 nm;
- 2.5.2 Lattice resolution must be a minimum of 0.2 nm.

2.6 Magnification

- 2.6.1 The microscope must have a magnification range (not including camera magnification) of x50 (or lower) to- at least x900,000 in a high contrast configuration;

2.6.2 The image must not rotate while changing magnification.

2.7 Lens System

2.7.1 The objective lens system must provide a high contrast imaging mode or lens system (pole piece).

2.8 Vacuum System

2.8.1 System must have an oil-free, turbo molecular pump vacuum evacuation system;

2.8.2 System must have a fully automatic sequential control for the operation of vacuum pumps;

2.8.3 System must allow gun access during filament exchange without loss of vacuum from the column;

2.8.4 System must have vacuum gauges or software indicating vacuum status for the electron gun, column and specimen chamber;

2.8.5 System must reduce column contamination through engineered design and/or optional cold trap.

2.9 Specimen Holders

2.9.1 The system must come with a high-tilt specimen holder for tomography.

2.10 Specimen Stage

2.10.1 System must have a 5 axis eucentric goniometer stage with a minimum $\pm 70^\circ$ tilt capacity.

2.11 Calibration Standards

2.11.1 Standard samples to check system calibration must be included with system.

2.12 Output Recording Device

2.12.1 Camera system must be a complementary metal-oxide semiconductor (CMOS) digital camera (no sheet film), must be fully integrated with high speed (minimum 30 frames per second), must be high sensitivity (maximum fine pixel size of 14 x 14) and must have a minimum resolution of 15 Megapixels;

2.12.2 The system must have multiple camera mounting options including mid-mount, bottom mount and side mount to allow for a flexible design.

2.13 Tool Kit/Manuals

2.13.1 A user maintenance tool kit must be supplied;

2.13.2 Instruction and service manuals (both hard copy and digital copy) in English including schematics must be supplied.

2.14 Spares and Consumables

2.14.1 A set of standard spare parts must be supplied including, as a minimum, additional apertures, tungsten filaments and a LaB6 cathode.

2.15 Chiller and Compressor

- 2.15.1 Microscope must have a stand-alone recirculation/chiller system with the option of being air or water cooled. This must be a closed circuit system with automatic temperature and flow rate control;
- 2.15.2 Must include a stand-alone air compressor with appropriate filters.

2.16 Display and Output

- 2.16.1 The monitor must be a minimum 23 inch, LCD/LED high resolution (must be at least 1920x1080) monitor;
- 2.16.2 A desk must be included for the monitor, mouse and other peripheral user interface components if not already built in the system.

2.17 CPU and Software

- 2.17.1 Must provide a high speed computer with a minimum Multicore 12MB/8T/3.0GHz to 4.7GHz/65W, 16 GB RAM, with pre-loaded, licensed software to operate the instrument, acquire and process data;
- 2.17.2 The computer operating system must be Windows 10 to be compatible with Agriculture and Agri-Food Canada (AAFC) systems;
- 2.17.3 Software upgrades developed within a year of purchase must be supplied without additional charge for installation by AAFC;
- 2.17.4 Backup copies of system and data processing software must be supplied on a universal serial bus (USB) flash drive;
- 2.17.5 Computer system must have easily accessible (front) USB ports for data transfer;
- 2.17.6 Computer system must provide remote access to service engineers for trouble-shooting, repairing the microscope and supporting users;
- 2.17.7 Software must provide a user lock-out mechanism using expertise levels ranging from beginners to experienced users. This allows safeguarding the integrity of the equipment from inexperienced users.

2.18 Safety Devices

- 2.18.1 The microscope must have built-in protection against water and power failures, vacuum leakage, column overheating and abnormal discharging.

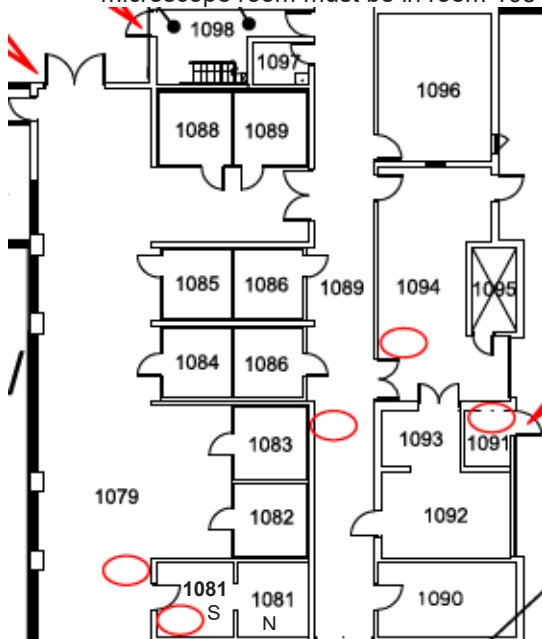
2.19 Un-interrupted Power Supply

- 2.19.1 An on-line uninterrupted power supply (UPS) system must be supplied. The UPS must be able to protect the TEM from electrical surge/spike, line noise, brownout, swell and blackout. The UPS must support the complete TEM system under full load for at least the length of time the system requires to be safely shut down in the case of an electrical blackout.

2.21 Delivery and installation

2.21.1 A pre-installation survey is recommended to be completed by bidder during tender to survey the logistic challenges of delivery and infrastructural parameters of installation. All costs associated with installation must be included in the bid.

2.21.2 Equipment must be delivered, unloaded, transported and installed starting from either exterior doors of room 1079 or 1094. The microscope must be installed in room 1081 north. Supporting, noise-producing equipment, including the recirculation/chiller system and air compressor, must be installed in the adjacent utility room, 1081 south. See below drawing. Operator room and microscope room must be in room 1081. No additional rooms will be provided for operator.



2.21.3 Foot print, infrastructure and specifications of installation site.
The microscope and supporting equipment must have a foot print to fit and function within the space described in the table below and must be adaptable to the outlined specifications of the installation site.

Microscope room (1081 north)

Floor space	12 square metres: 4.03 m X 3.00 m (=18,762 square inches: 159" X 118" wide)
Ceiling height	2.67 m (105 inches)
Entrance	1066.8 mm (W) × 2146.3 mm (H) (42" W X 84 ½" H)
Room temperature	No current temperature control ventilation in this internal room. 90 l/s ventilation can be added if needed. Ventilation conditions would be 18 to 25°C (fluctuations should be 1 °C/h or less).
Humidity	Between 20% and 60% RH

Floor vibration	Floor is 6" concrete slab on grade. Vibrations level are unknown. Contractor has the option to attend the site visit to confirm floor vibrations and must provide isolation if inadequate (any cost to be included in the bid).
Facility Compressed Air	75-80 psi oil free. If a final regulator filter dryer/combination (conditioning) is required for proper functioning of the TEM, the contractor must provide it and connect it.
Dry nitrogen gas	Not available onsite. If standalone tanks are required, a location for installation will be provided within 1 metre of equipment.
Floor drain	One centrally located, 80 mm floor drain.
Existing UPS	5400 watt UPS - 230v output (no neutral). Make, model and specifications available upon request.

Note: additional electrical is available

Utility room (1081 south)

Floor space	6 square metres: 2.03 m X 3.00 m (=9558 square inches: 81" X 118" wide)
Ceiling height	2.67 m (105 inches)
Entrance	1066.8 mm (W) x 2146.3 mm (H) (42" W X 84 ½" H)
Room temperature	90 l/s ventilation 18 to 25 °C (fluctuations should be 1 °C/h or less).
Humidity	Between 20% and 60% RH
Domestic cold water pressure	40 psi
Type 4 - RO water	24 psi at flow rate of 4 litres/min
Note for water-cooled chiller (condensing supply)	Any refrigeration equipment must be designed for water cooling of condensing unit. 26°C processing cooling water is available at site, maximum 67 litres/min, with supply pressure of 70 psi, return pressure of 20 psi and will be provided 1 metre from required location. Contractor must ensure this is compatible with the chiller refrigeration systems.

2.22 Non-technical Requirements

2.22.1 Mandatory delivery, installation and on-site training must be completed on or before March 31, 2021.

2.22.2

- A Initial on-site training must be completed within one (1) week of installing TEM. Initial training must be a minimum of one (1) day to familiarize users with equipment.
- B Comprehensive on-site training in English must be provided for the entire system for a maximum of fifteen (15) Agriculture and Agri-Food Canada (AAFC) employees. On-site training must be completed on or before March 31, 2021. Due to COVID-19 restrictions, AAFC or the company could decide that some of the training will be provided remotely through an online platform.

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File No. - N° du dossier
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kin940
CCC No./N° CCC - FMS No./N° VME

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- C Technical support must be provided in perpetuity for all software, including proprietary and/or free software for single particle analysis, tomography, 3D reconstruction, and next generation visualization.
- 2.22.3 Two years on-site manufacturer's warranty must be provided covering all parts and labor excluding consumables.
- 2.22.4 Beyond the manufacturer's warranty/and or service contract, the TEM supplier must have a local service team stationed in Ontario for fast and reliable service quality. Service availability must be Monday through Friday, during normal business hours 8 am-5 pm EST. The supplier must provide telephone/email response back to the customer within 24 hours of issue. On-site Response must be targeted for at least 48 hours with escalation occurring thereafter, as necessary.
- 2.22.5 Must be CSA or Underwriters' Laboratories of Canada approved.

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ANNEX "B"

BASIS OF PAYMENT

Note to Bidders: Bidders must provide manufacturer and model information and firm unit price for the Items in their bid. This text will not be included in the resulting Contract.

Pricing:

Prices herein are firm and all-inclusive in Canadian Dollars, Delivered Duty Paid (1391 Sandford Street, London, ON, N5V 4T3) including Canadian customs duties and excise taxes, excluding HST. HST is not included in the pricing below and will be show as a separate item on all invoices.

Item #	Description	Quantity	Firm Unit Price
1	<p>Transmission Electron Microscope (TEM), in accordance with Annex "A" – Requirement, including installation.</p> <p>Bidders must include any components, peripherals or supplies necessary to comply with the Requirement and to operate the system on arrival at Agriculture & Agri-Food Canada.</p> <p>Bidders must include initial Training to be conducted within one (1) week after installation is complete.</p> <p>Manufacturer:</p> <p>_____</p> <p>Model:</p> <p>_____</p>	1 Each	\$_____/each
2	On Site Training for up to 15 trainees in London.	1 Lot	\$_____/each

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ANNEX "C" to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

As indicated in Part 3, clause 3.1.2, the Bidder must complete the information requested below, to identify which electronic payment instruments are accepted for the payment of invoices.

The Bidder accepts to be paid by 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).