



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

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**
11 Laurier St./ 11 rue, Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

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

Title - Sujet CNC Precision Lathe	
Solicitation No. - N° de l'invitation 23240-171001/A	Date 2016-12-06
Client Reference No. - N° de référence du client 23240-171001	
GETS Reference No. - N° de référence de SEAG PW-\$\$PV-873-72040	
File No. - N° de dossier pv873.23240-171001	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-01-16	Time Zone Fuseau horaire Eastern Standard Time EST
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: Shannahan, Cassandra	Buyer Id - Id de l'acheteur pv873
Telephone No. - N° de téléphone (819) 420-1068 ()	FAX No. - N° de FAX (819) 956-3814
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: NATURAL RESOURCES CANADA 1 Hannel Drive Building 4A 1-0100 OTTAWA Ontario K1A1M1 Canada	

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 Requirement

The requirement is detailed under Annex "A".

1.2 Debriefings

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

1.3 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

2.1.1 SACC Manual Clauses

SACC Manual clause B1000T (2014-06-26) Condition of Material

2.2 Submission of Bids

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

Bid Receiving - PWGSC

Place du Portage, Phase III, Tower B
11 Laurier Street
Gatineau, Quebec

For couriers: J8X 4A6
For regular mail: K1A 0S5

Telephone: (819) 956-3370
Fax No.: (819) 997-9776

The above address is for the sole purpose of bid submission. No other communications are to be forwarded to this address.

No proposal shall be sent directly to the PWGSC Contracting Authority. Proposals sent directly to the PWGSC Contracting Authority will not be considered.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.4 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (two (2) hard copies)

Section II: Financial Bid (two (2) hard copies)

Section III: Certifications (two (2) hard 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 their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;

- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that Bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, Bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

The technical bid consists of the following:

- (a) **Supporting Technical documentation:** Technical brochures or technical data to demonstrate compliance to the requirement as described in Annex "A".
- (b) **List of Products:** Bidders must include a complete product list identifying: the product name; the name of manufacturer; the model and part number of each component which make up the system. Bidders must also state the point of manufacture and shipping of goods or where service is to be performed: The bidder is requested to use the form provided in Annex "C".
- (c) **Installation Plan:** Bidders should include an installation plan (including the installation schedule), which must demonstrate that the Bidder's installation plan meets all the mandatory requirements for installation described Annex "A".
- (d) **Training Plan:** Bidders should include a training plan, which must demonstrate that the Bidder's training plan meets all the mandatory requirements for training described in Annex "A". The training plan must include, at a minimum, a description of the course materials that will be provided to participants; the training schedule; and the duration of the training.
- (e) **Description of the Bidder's Maintenance and Support Services:** Bidders should include a description of its warranty, maintenance and support services, which must be consistent with all the requirements described in Annex "A". At a minimum, Bidders should include the following:
 - (i) Location of available service facilities (after sales service and repair). List the service facilities closest to the destination.
 - (ii) Locations of available replacement parts from consumables to major components.
 - (iii) Response time re: service calls, and escalation schedule, i.e. (how many days with no resolution to a problem until a more experienced person is called in, and from which location).

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

Section II: Financial Bid

- (a) **Pricing:** Bidders must submit their financial bid in accordance with the Basis of Payment including Annex "B" – Pricing Tables.
- (b) **All Costs to be Included:** The financial bid must include all costs for the requirement described in the bid solicitation for the entire Contract Period, including any option years. The identification of all necessary equipment, software, peripherals, cabling and components required to meet the requirements of the bid solicitation and the associated costs of these items is the sole responsibility of the Bidder.
- (c) **Blank Prices:** Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in the tables. 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.

3.1.1 Electronic Payment of Invoices – Bid

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

If Annex "E" 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

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Evaluation Criteria

The mandatory technical evaluation criteria are detailed in Annex "A", Part 2.1.

4.1.2 Financial Evaluation

The financial evaluation will be conducted by calculating the Total Aggregated Bid Price in accordance with the pricing tables provided in Annex "B" - Pricing Tables.

Evaluation of Price - Bid

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, DDP (Ottawa, ON) Incoterms® 2000, Canadian customs duties and excise taxes included.

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.

4.2 Basis of Selection

4.2.1 SACC Manual Clause [A0031T](#) (2010-08-16) - Basis of Selection - Mandatory Technical Criteria

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

5.1.2 Additional Certifications Required with the Bid

5.1.2.1 Product Conformance

The Bidder certifies that all goods proposed conform, and will continue to conform throughout the period of the contract, to the requirement detailed under Annex "A".

Bidder's authorized representative signature

Date

5.2.1 Integrity Provisions – Required Documentation

In accordance with the *Ineligibility and Suspension Policy* (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), 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](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

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

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Requirement

6.2.1 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](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

Subsection 9.1 of [2010A](#) (2016-04-04) General Conditions - Goods or Services, is amended as follows:

Delete in its entirety and replace with the following:

"Despite inspection and acceptance of the Work by or on behalf of Canada and without restricting any provisions of the Contract or any condition, warranty or provision imposed by law, the Contractor, if requested by Canada to do so, must replace, repair or correct, at its own option and expense any work that becomes defective or fails to conform to the requirements of the Contract, where applicable. The

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warranty period will be twenty-four (24) months after delivery and acceptance of the Work or the length of the Contractor's or manufacturer's standard warranty period, whichever is longer."

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract begins on the date the Contract is awarded and ends two years from date of delivery and acceptance.

6.4.2 Delivery Date

All the deliverables must be received on or before March 31, 2017.

6.4.3 Delivery Points

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Cassandra Shannahan
Title: Supply Specialist
Public Works and Government Services Canada
Commercial Consumer Products Directorate
11 Laurier Street, 6A2, Phase III
Place du Portage, Gatineau, Quebec, K1A 0S5

Telephone: (819) 420-1068
E-mail address: cassandra.shannahan@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 Technical Authority (to be filled in only at contract award)

The Technical Authority for the Contract is:

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

Telephone: _____
E-mail address: _____

The Technical Authority named above 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

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Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

6.5.3 Accounts Payable Contact (to be filled in only at contract award)

Name:
Telephone:
E-mail address:

6.5.4 Contractor's Representative (to be completed by the bidder)

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

General enquiries

Name: _____
Tel. No. _____ ext: _____
E-mail address: _____

Delivery Follow-up

Name: _____
Tel. No. _____ ext: _____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex "B" – Pricing Tables for a cost of \$_____ **(to be filled in only 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.

6.6.3 SACC Manual Clauses

SACC Manual clause C2000C (2007-11-30) Taxes - Foreign-Based Contractor
SACC Manual clause H1000C (2008-05-12) Single Payment

6.6.4 Electronic Payment of Invoices – Contract

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

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

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
 - (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
 - (c) To facilitate the payment process, it is important that the Contractor quote the contract number on all the invoices, shipping bills and packing slips. Failure to do so will delay payment and the date used for calculating interest on overdue accounts.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

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

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

6.9 Applicable Laws

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

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2016-04-04) General Conditions - Goods (Medium Complexity);
- (c) Annex "A", Requirement;
- (d) Annex "C", – List of Products;
- (e) Annex "B", – Pricing Tables; and
- (f) the Contractor's bid dated _____ (*insert date of bid*).

6.11 SACC Manual Clauses

SACC Manual clause [B1501C](#) (2006-06-16) Electrical Equipment
SACC Manual clause [A9068C](#) (2010-01-11) Government Site Regulations
SACC Manual clause [A2000C](#) (2006-06-16) Foreign Nationals (Canadian Contractor)
OR
SACC Manual clause [A2001C](#) (2006-06-16) Foreign Nationals (Foreign Contractor)
SACC Manual clause [G1005C](#) (2016-01-28) Insurance – No Specific Requirement
SACC Manual clause [D2025C](#) (2013-11-06) Wood Packaging Materials

6.12 Shipping Instructions

6.12.1 Shipping Instructions - Delivery at Destination

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

Delivered Duty Paid (DDP) Ottawa, ON Incoterms 2000 for shipments from a commercial contractor.
2. The Contractor will be responsible for all delivery charges, administration, costs and risk of transport and customs clearance, including the payment of customs duties and taxes.

ANNEX "A"

REQUIREMENT

Natural Resources Canada (NRCan) has a requirement for the supply of a CNC precision lathe which must meet all of the mandatory technical requirements as specified below and the mandatory evaluation criteria as specified at Part 2.1 - Mandatory Technical Evaluation Criteria.

The requirement must work and operate at all times in accordance with the following mandatory technical requirements and the mandatory evaluation criteria as specified below at Part 2.1 - Mandatory Technical Evaluation Criteria.

1) Delivery

The system including the manuals must be delivered as soon as possible and no later than March 31, 2017.

The best delivery/installation dates offered are: _____

2) Installation

On-site installation must be provided and shall be carried out by a qualified service technician. Final hook-up of instrument will be the responsibility of the bidder. Transformer mounting, main feed and sub feed to the machine will be carried out by NRCan electrical department.

State your best installation schedule. Installation will be carried out within _____ calendar days of delivery and be completed within _____ calendar days.

3) Training

On-site user training (minimum two days) must be provided for up to two (2) users on the mechanical, electrical and electronics systems and maintenance. All costs associated with the on-site training must be included in the price.

On-site training will be completed within _____ calendar days of installation. Provide complete details of training e.g. duration, scope, etc.

4) Service

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

Response for service shall be within 24 hours or less.

Provide the following with your bid:

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

5) Deliverables

- One (1) CNC Precision Lathe;
- All of the following tooling for the lathe:
 - o Precision 5" 3-jaw chuck
 - o Precision 5" 4-jaw chuck
 - o Precision 5C collet set 1/16"- 1 1/16" increment of 32nds
 - o Precision 5C collet set 2mm-27mm increment of .5mm
 - o Precision 5C square collets 1/8"-5/8" increment of 1/16"
 - o Precision 5C square collets 3mm-12mm increment of .5mm
 - o Precision L18 tool post
 - o Precision L21 holder
 - o Precision L19 holder
 - o Precision L23 holder;
- Two complete sets of all necessary safety, operating and maintenance manuals (digital allowed) in English;
- Two (2) year parts and labour warranty on machine and control; and
- Technical support and service during normal working hours (EST) for the duration of the warranty period.

Part 2.1 - MANDATORY TECHNICAL EVALUATION CRITERIA

The following requirements are the mandatory technical evaluation criteria which will be evaluated during the Bid Evaluation. In addition the Contractor will be required to meet all of the mandatory technical requirements for the duration of the Contract

Bidders are requested to cross reference the mandatory technical criteria in a concise format by using page, paragraph(s) & sub-paragraphs as applicable to their supporting technical documentation.

ITEM	CRITERIA	REFERENCE TO SUBSTANTIATION IN THE TECHNICAL BID.
1. Standard Tool room configuration		
1.1	Must have a high precision, high speed spindle with ≤ 50 to $\Rightarrow 6000$ RPM	
1.2	Must have a guaranteed circularity accuracy of $\leq .0015$ mm	
2. Construction		
2.1	Must have a dovetail bed of precision ground hardened tool steel	
2.2	Must have a saddle constructed with material (such as Turcite B) on the counter slides with hardened and ground tool steel inserts on the cross-slides	
2.3	Must have a precision compound slide with graduated 1 deg interval, camlock swivel base, with quick acting lever and handwheel operated slide	
2.4	Must have tool post and gang tool slide capabilities	
2.5	Must have a spindle drive with minimum 5 H.P.	
2.6	Must have a spindle nose with 4 degree taper (required for compatibility with existing equipment)	
2.7	Must have a spindle bore with 5 C collet (required for compatibility with existing equipment)	
2.8	Must have a lever operated collet closer	
2.9	Must have a precision ground tailstock	
2.10	Must have a tailstock quill bore Mt 2	
2.11	Must have a standard 4 way indexing toolpost (3/8 toolbits)	
2.12	Must have direct-coupled axis servo drive motors	
2.13	Must have an auto lube system with low fluid alarm	
2.14	Must have a coolant supply system with 1/4 H.P. pump	
2.15	Must have high intensity worklight	
2.16	Cabinet base must come with storage space	
2.17	Must come with basic toolkit	
2.18	Weight must be $\Rightarrow 1100$ kgs	
3. Work Envelope		
3.1	Swing over bed must be $\Rightarrow 380$ mm	
3.2	Swing over cross slide must be $\Rightarrow 150$ mm	
3.3	Distance between centres must be $\Rightarrow 450$ mm	

3.4	X axis travel must be=> 220 mm	
3.5	Z axis travel must be => 340 mm	
3.6	Rapid traverse rate must be =>20 M per min	
3.7	Tailstock quill travel must be => 95 MM	
4. Controller		
4.1	<ul style="list-style-type: none"> -Must controlled axes:4 -Must be able to simultaneously controlled axes:4 -Must have HRV control -Must have Inch/Metric conversation -Must have machine lock -Must have mirror image -Must have rigid tapping 	
4.2	<ul style="list-style-type: none"> -Must have dwell function -Must have linear Interpolation -Must have circular Interpolation 	
4.3	<ul style="list-style-type: none"> -Must have skip Function -Must have reference point return function -Must have feed per minute function -Must have 2nd reference point return -Must have feedrate override function -Must have jog override function -Must have program number search function -Must have sequence number search function -Must have dry run function -Must have jog feed function -Must have manual reference return function -Must have optional block skip function -Must have program number display -Must have sequence number display -Must have absolute/incremental programming function -Must have a plane selection function -Must have automatic coordinate setting function 	
4.4	<ul style="list-style-type: none"> -Must have actual cutting feed rate display -Must have part program Storage 1280m (512k) -Must have spindle information screen -Must have alarm history display -Must have operator history display -Must have graphic function display -Must have dynamic graphic function -Must have memory card interface -Must have Ethernet adaptor -Must have a 8.4" LCD color display -Must have additional of custom macro variables common function -Must have sub program call function -Must have extended part program editing -Must have coordinate setting function -Must have manual absolute on and off function -Must have custom macro B function -Must have programmable data input -Must have circular interpolation by program function 	
4.5	<ul style="list-style-type: none"> -Must have canned cycle for lathe function -Must have USB Interface -Must have tool life management function 	

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	<ul style="list-style-type: none"> -Must have backlash compensation for each rapid traverse -Must have RS-232C communication port -Must have current position display -Must have program display function -Must have self-diagnosis function -Must have parameter setting display -Must have run hour/part cont. display -Must have 400 registration Programs 	
5. Operational Modes		
5.1	Must have Conversational Programming (with edit, help and canned cycle screens)	
5.2	Must have Teach and Learn Function (manufacture part manually, machine repeats all functions to reproduce part)	
5.3	Must have Standard G Code entry, either by manual direct input (M.D.I.) or by input from Natural Resources Canada standard software system, which is currently Mastercam 2017.	
5.4	Must have Manual Mode and Handwheel control (machine operates as a conventional lathe)	
5.5	Must have Slave Mode (Handwheel controls 2 axis simultaneously)	
6. Footprint		
6.1	Must be =< L - R (left - right) 2050mm by F-B (front- back) 1000mm	
7. Electrics		
7.1	Machine and control must be certified to meet local code (Ontario Hydro or equivalent)	
8. Miscellaneous		
8.1	Must provide a post processor compatible with the standard software system used by NRCAN (currently Mastercam 2017)	

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ANNEX "B"

PRICING TABLES

Table 1: Requirement:

Item	Description	Number of Units	Unit of Issue	Firm Unit Price	Extended Price (Number of Units X Firm Unit Price)
1	CNC Precision Lathe, in accordance with the mandatory specifications detailed in Annex "A" and including all tooling, manuals, installation, training, two-year parts and labour warranty, and technical service and support during warranty period.	1	Each	\$ _____	\$ _____
2	Evaluated price: CAD/USD (please circle one)				\$ _____

Delivery point:
Natural Resources Canada
1 Haamel Drive
Ottawa, ON K1A 1M1

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ANNEX “C”
LIST OF PRODUCTS

Product Name	Model/Part Number	Name of Manufacture		

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ANNEX "D"

COMPLETE LIST OF DIRECTORS
(As per Standard Instructions, Clauses and Conditions Part 2)

Name	Position
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ANNEX “E” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

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