



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

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

**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

CE DOCUMENT CONTIENT DES EXIGENCES
RELATIVES À LA SÉCURITÉ./
THIS DOCUMENT CONTAINS A SECURITY
REQUIREMENT.

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

TPSGC/PWGSC
BFC Bagotville, CP 380
CFB Bagotville, PO Box 380
Bâtiment 62, local 112
Building 62, Room 112
Alouette
Québec
G0V1A0

| | |
|--|--|
| Title - Sujet Simultaneous 4-Axis CNC Lathe | |
| Solicitation No. - N° de l'invitation W7701-176244/A | Date 2016-11-10 |
| Client Reference No. - N° de référence du client W7701-176244 | |
| GETS Reference No. - N° de référence de SEAG PW-\$BAL-001-16932 | |
| File No. - N° de dossier BAP-6-39178 (001) | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-12-28 | Time Zone Fuseau horaire Heure Normale du l'Est HNE |
| 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: Tremblay, Marial | Buyer Id - Id de l'acheteur bal001 |
| Telephone No. - N° de téléphone (418) 677-4000 (4159) | FAX No. - N° de FAX () - |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Defence R & D Canada - Valcartier / R et D Défense Canada - Valcartier 2459 route de la Bravoure Québec (Québec) G3J 1X5 | |

Instructions: See Herein

Instructions: Voir aux présentes

| | |
|---|--|
| Delivery Required - Livraison exigée Voir doc. | 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 | |

SIMULTANEOUS 4-AXIS NUMERICALLY CONTROLLED LATHE

DEFENCE RESEARCH AND DEVELOPMENT CANADA (DRDC)

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Solicitation No. - N° de l'invitation

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

W7701-176244/A

bal001

Client Ref. No. - N° de réf. du client

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VME

W7701-176244

BAP-6-39178

PART 1 - PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into seven parts and annexes, as follows:

- Part 1 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 Security requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Requirement, the Technical Specifications Required, the Basis of Payment, Security Requirements, the Security Requirements Checklist, and other annexes.

1.2 Summary

(a) Requirement

The Prototype group at Defence Research and Development Canada - Valcartier Research Centre, would like to upgrade some of its inventory of machine tools. Several machines are obsolete and require constant repair. For this purpose, we are seeking to replace the existing machine tool (Simultaneous 4-axis numerically controlled lathe) with similar characteristics in terms of high precision and machining capacity (size and weight).

The replacement machine should not exceed the space currently occupied by the existing machine. The lathe must be capable of machining a part of at least three inches. The machine must have a Y axis and be capable of receiving tools from all stations of the turret. The expected power and spindle speed are 30 hp and 4,000 RPM and multiple other specifications must be met.

(b) Client

Defence Research and Development Canada (DRDC)
2459, route de la Bravoure,
Quebec city, Quebec, G3J 1X5, CANADA

(c) Delivery Period

The system must be delivered inside a period of 75 calendar days after a contract award.

(d) Security Requirements

There are security requirements associated with this requirement. For additional information, consult Part 6 - Security Requirements, and Part 7 - Resulting Contract Clauses. For more information on personnel and organization security screening or security clauses, bidders should refer to the Industrial Security Program (ISP) of Public Works and Government Services Canada (<http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>) website.

(e) 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), the Agreement on Internal Trade (AIT), and the Chile, Colombia, Honduras, Korea, Panama, Peru Trade Agreements with Canada.

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.

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: 120 days

2.2 Submission of Bids

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

Bid Receiving Unit
Public Works and Government Services Canada (PWGSC)
1550 D'Estimauville Avenue
Quebec City, Quebec, Canada, G1J 0C7

Due to the nature of the bid solicitation, bids transmitted by facsimile 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 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 Quebec.

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

2.5 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 20 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

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 (3 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

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

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex C. The total amount of Applicable Taxes must be shown separately.

3.1.1 Exchange Rate Fluctuation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450, <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/450.pdf> Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
4. At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450, for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

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

4.1.1.1 Mandatory Technical Evaluation Criteria

The bid must meet the mandatory technical evaluation criteria specified hereafter. Bidders must provide the necessary documentation to support compliance with this requirement.

Bids which fail to meet the mandatory technical evaluation criteria will be declared non-responsive. Each mandatory technical criterion should be addressed separately.

| Mandatory Technical Evaluation Criteria | | |
|--|-----------------------------|---|
| Although bidders must propose products meeting all technical specifications required in Annex B; at the bid closing date, bids will be evaluated on following selected technical specifications: | | |
| 1 | Machine Capacity | |
| | 1.5 | Int. diameter of spindle ball bearings: 5" min |
| | 1.6 | Bar capacity: 3" min |
| | 1.7 | Spindle nose: A1-8 or A2-8 or metric equivalent (specified) |
| 2 | Main Motor Capacity | |
| | 2.1 | Minimum continuous motor capacity: 25 hp |
| | 2.2 | Minimum motor capacity for 20 min: 30 hp |
| | 2.3 | Maximum speed: 4000 RPM minimum |
| | 2.4 | Brushless alternating current integral motor, with no gearbox or belt and pulley system (mandatory) |
| | 2.5 | Motor torque: minimum 300 lb-ft continuously |
| 3 | Tool Turret with "C" | |
| | 3.7 | Live tool speed capacity: 3500 RPM minimum |
| | 3.8 | Live tool motor power: 7.5 hp minimum |
| | 3.9 | Drill capacity: 20 mm minimum |
| | 3.10 | End mill capacity: 20 mm minimum |
| | 3.11 | Tap capacity: Up to M20 X 2.5 |
| | 3.12 | Minimum torque of rotary tools: 25 lb-ft |

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| 4 | Travel, Power and Traverse Rate | |
| | 4.1 | "Z" axis travel: 30.0" minimum |
| | 4.2 | "X" axis travel: 8.75" minimum |
| | 4.3 | "Y" axis travel: 4" minimum |
| | 4.4 | "X" axis motor power: 2.5 hp & 1000 lb minimum of thrust |
| | 4.5 | "Y" axis motor power and torque: 2.5 hp & 800 lb minimum of thrust |
| | 4.6 | "Z" axis motor power and torque: 2.5 hp & 1250 lb minimum of thrust |
| 9 | Basic Characteristics of the Conversational Simultaneous 4-Axis Controller | |
| | 9.6 | NC memory capacity of at least 2 MB |
| | 9.8 | Machine hard drive with 20 GB of memory and memory editing capacity |
| 10 | Dimensions and Weight | |
| | 10.1 | Maximum floor space (length x width x height), including chip conveyor: 204" X 92" X 85" (limited space) |
| 11 | Machine Construction | |
| | 11.2 | Preloaded ballscrews must be at least 32 mm in diameter on the X axis |
| | 11.3 | Preloaded ballscrews must be at least 32 mm in diameter on the Y axis |
| | 11.4 | Preloaded ballscrews must be at least 32 mm in diameter on the Z axis |
| | 11.5 | Hardened and ground ways and/or hardened slides on linear or U and X-ball guide rollers |
| | 11.9 | Automatic or manual tool measuring system |

To demonstrate that your products meet all selected technical specifications mentioned above, Bidders must submit with their 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. The document **shall** provide detailed information on each performance requirement and/or specification.

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.

4.1.2 Financial Evaluation

The total price of each bid will be established using the following criteria:

- (a) Bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded. For evaluation purposes, bids received in a foreign currency will be converted to Canadian funds using the appropriate rate of exchange using the rate quoted by the Bank of Canada as being in effect on date of bid closing.
- (b) Bidders must submit their prices DDP destination; Delivered Duty Paid.

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

5.2 Certifications Precedent to Contract Award and Additional Information

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the Employment and Social Development Canada (ESDC) - Labour's website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969#afed).

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 Bidder Certifies that All Equipment is "Off-the-Shelf"

Any equipment bid to meet this requirement must be "off-the-shelf" (unless otherwise stated in this bid solicitation), meaning that each item of equipment is commercially available and requires no further research or development and is part of an existing product line with a field-proven operational history (that is, it has not simply been tested in a laboratory or experimental environment). If any of the equipment bid is a fully compatible extension of a field-proven product line, it must have been publicly announced on or before the bid closing date. By submitting a bid, the Bidder is certifying that the entire equipment bid is off-the-shelf.

5.2.4 OEM Certification

- (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 (Annex E) 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 (Annex E) 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.
- (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, OEM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Security Requirements

1. Before award of a contract, the following conditions must be met:
 - (a) the Bidder must hold a valid organization security clearance as indicated in Part 7 - Resulting Contract Clauses;
 - (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirements as indicated in Part 7 - Resulting Contract Clauses;
 - (c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;
2. Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.
3. For additional information on security requirements, bidders should refer to the Industrial Security Program (ISP) of Public Works and Government Services Canada (<http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html>) website.

6.2 Sponsorship

As it is relatively long for a company to obtain a security clearance, we invite bidders to submit a request for "Organization sponsorship and screening eligibility" as described on the ISP website.

You do not need to wait the closing date of this solicitation to make your sponsorship application, you can now send an email to the attention of the Contracting Authority with subject "Request for Organization sponsorship and screening eligibility – W7701-176244/A" and provide the required information, as per the ISP website.

PART 7 - RESULTING CONTRACT CLAUSES

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

Notice: Numbering will be revised at contract award.

7.1 Requirement

The Contractor must provide and install a simultaneous 4-axis numerically controlled lathe, in accordance with the Requirement at Annex A.

7.2 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>) issued by Public Works and Government Services Canada.

7.2.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

7.2.2 Supplemental General Conditions

The following Supplemental General Conditions apply to and form part of the Contract:

| Number | Date | Title |
|--------|------------|---|
| 4001 | 2015-04-01 | Hardware Purchase, Lease and Maintenance https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/4/4001/6 |
| 4003 | 2010-08-16 | Licensed Software https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/4/4003/4 |
| 4004 | 2013-04-25 | Maintenance and Support Services for Licensed Software https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/4/4004/5 |

7.3 Security Requirements For Canadian Supplier

The following security requirements (*SRCL and related clauses provided by ISP*) apply and form part of the Contract.

1. The Contractor must, at all times during the performance of the Contract, hold a valid Designated Organization Screening (DOS), issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. The Contractor personnel requiring access to sensitive work site(s) must EACH hold a valid **RELIABILITY STATUS**, granted or approved by CISD/PWGSC.
3. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISD/PWGSC.
4. The Contractor must comply with the provisions of the:
 - (a) Security Requirements Check List and security guide (if applicable), attached at Annex D; and
 - (b) Industrial Security Manual (Latest Edition).

7.4 Term of Contract

7.4.1 Period of the Contract

The period of the Contract is from date of Contract until the end of the warranty period inclusive.

7.4.2 Delivery Period

All the deliverables (goods) must be received within a period of seventy-five (75) calendar days after the contract is awarded.

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Marial Tremblay
Title: Supply specialist
Telephone: 418-677-4000, ext.: 4159
E-mail address: Marial.Tremblay@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.

7.5.2 Technical Authority

The Technical Authority for the Contract is:

(to be completed at contract award by PWGSC)

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

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

7.5.3 Contractor's Representatives

Name and telephone number of the person responsible for :

(a) Contract Manager:

Name: _____

Title: _____

Telephone No.: _____

Facsimile No.: _____

E-mail Address: _____

(b) Delivery, Start-up, and Training Follow up:

Name: _____

Title: _____

Telephone No.: _____

Facsimile No.: _____

E-mail Address: _____

7.6 Payment

7.6.1 Basis of Payment – Firm Lot Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm lot prices, as specified in Annex C for a cost of \$_____ (to be completed at contract award by PWGSC). 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.

7.6.2 SACC Manual Clause

| Number | Date | Title |
|--------|------------|----------------------------------|
| C2000C | 2007-11-30 | Taxes - Foreign-based Contractor |

7.6.3 Terms of Payment - Milestone Payments - Subject to holdback

1. Canada will make milestone payments in accordance with the Milestones detailed in the Contract (Delivery, Start-up, and Training) and the payment provisions of the Contract, up to 90 percent of the amount claimed and approved by Canada if:
 - a. an accurate and complete claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
 - b. the total amount for all milestone payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Contract;
 - c. all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;
 - d. all work associated with the milestone and as applicable any deliverable required have been completed and accepted by Canada.
2. The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all Work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted

7.7 Invoicing Instructions - Progress Payment Claim

1. The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf> Claim for Progress Payment .

Each claim must show:

- a. all information required on form PWGSC-TPSGC 1111;
 - b. all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
 - c. the description and value of the milestone claimed as detailed in the Contract.
2. The Goods and Services Tax or Harmonized Sales Tax (GST/HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.

The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the DRDC Procurement Officer identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

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3. The DRDC Procurement Officer will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.
 4. The Contractor must not submit claims until all work identified in the claim is completed.

7.8 Certifications and Additional Information

7.8.1 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.

7.9 Applicable Laws

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

7.10 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:
 - (i) 4001 (2015-04-01), Hardware Purchase, Lease and Maintenance;
 - (ii) 4003 (2010-08-16), Licensed Software; and
 - (iii) 4004 (2013-04-25), Maintenance and Support Services for Licensed Software.
- (c) the 2010A (2016-04-04), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Required Technical Specifications;
- (f) Annex C, Basis of Payment;
- (g) Annex D, Security Requirements Check List;
- (h) the Contractor's bid dated _____, amended on _____" (to be completed at contract award by PWGSC).

7.11 SACC Manual Clauses

| Number | Date | Title |
|--------|------------|-------------------------------------|
| A9006C | 2012-07-16 | Defence Contract |
| A9062C | 2011-05-16 | Canadian Forces Site Regulations |
| G1005C | 2016-01-28 | Insurance - No Specific Requirement |

7.12 Electrical Equipment

All electrical equipment supplied under the Contract must be certified or approved for use in accordance with the Canadian Electrical Code, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada.

7.13 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered: Delivered Duty Paid (DDP)

Defence Research and Development Canada – Valcartier Research Centre
Building 64
2459 de la Bravoure Road, Quebec, Quebec, G3J 1X5, Canada

or

a storage place located within a radius of 35 km from Quebec City.

7.14 Intellectual Property Infringement and Royalties

1. The Contractor represents and warrants that, to the best of its knowledge, neither it nor Canada will infringe any third party's intellectual property rights in performing or using the Work, and that Canada will have no obligation to pay royalties of any kind to anyone in connection with the Work.
2. If anyone makes a claim against Canada or the Contractor concerning intellectual property infringement or royalties related to the Work, that Party agrees to notify the other Party in writing immediately. If anyone brings a claim against Canada, according to Department of Justice Act, R.S. 1985, c. J-2, the Attorney General of Canada must have the regulation and conduct of all litigation for or against Canada, but the Attorney General may request that the Contractor defend Canada against the claim. In either case, the Contractor agrees to participate fully in the defence and any settlement negotiations and to pay all costs, damages and legal costs incurred or payable as a result of the claim, including the amount of any settlement. Both Parties agree not to settle any claim unless the other Party first approves the settlement in writing.

-
3. The Contractor has no obligation regarding claims that were only made because:
- Canada modified the Work or part of the Work without the Contractor's consent or used the Work or part of the Work without following a requirement of the Contract; or
 - Canada used the Work or part of the Work with a product that the Contractor did not supply under the Contract (unless that use is described in the Contract or the manufacturer's specifications); or
 - the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
 - the Contractor used a specific item of equipment or software that it obtained because of specific instructions from the Contracting Authority; however, this exception only applies if the Contractor has included the following language in its own contract with the supplier of that equipment or software: "[Supplier name] acknowledges that the purchased items will be used by the Government of Canada. If a third party claims that equipment or software supplied under this contract infringes any intellectual property right, [supplier name], if requested to do so by either [Contractor name] or Canada, will defend both [Contractor name] and Canada against that claim at its own expense and will pay all costs, damages and legal fees payable as a result of that infringement." Obtaining this protection from the supplier is the Contractor's responsibility and, if the Contractor does not do so, it will be responsible to Canada for the claim.
4. If anyone claims that, as a result of the Work, the Contractor or Canada is infringing its intellectual property rights, the Contractor must immediately do one of the following:
- take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
 - modify or replace the Work to avoid intellectual property infringement, while ensuring that the Work continues to meet all the requirements of the Contract; or
 - take back the Work and refund any part of the Contract Price that Canada has already paid.

If the Contractor determines that none of these alternatives can reasonably be achieved, or if the Contractor fails to take any of these steps within a reasonable amount of time, Canada may choose either to require the Contractor to do (c), or to take whatever steps are necessary to acquire the rights to use the allegedly infringing part(s) of the Work itself, in which case the Contractor must reimburse Canada for all the costs it incurs to do so.

ANNEX A - REQUIREMENT

A.1 Title

Simultaneous 4-Axis Numerically Controlled Lathe

A.2 Context

The Prototype group at Defence Research and Development Canada - Valcartier Research Centre, would like to upgrade some of its inventory of machine tools. Several machines are obsolete and require constant repair. For this purpose, we are seeking to replace the existing machine tool with similar characteristics in terms of high precision and machining capacity (size and weight).

A.3 Acronyms

| | |
|------|--|
| DRDC | Defence Research and Development Canada |
| SoR | Statement of Requirement |
| TA | Technical Authority |
| AD | Applicable Document |
| RPM | Revolutions Per Minute |
| CNC | Computer Numerical Control |
| HP | Horse Power = Power delivered by a motor or other motorized system |

A.4 Applicable Documents and References

Annex B - Required Technical Specifications.

A.5 Requirement

A.5.1 Simultaneous 4-Axis Numerically Controlled Lathe

Required quantity: 1

The Contractor shall supply the item in accordance with the following specifications: See Annex B.

Summary: The replacement machine should not exceed the space currently occupied by the existing machine. The lathe must be capable of machining a part of at least three inches. The machine must have a Y axis and be capable of receiving tools from all stations of the turret. The expected power and spindle speed are 30 hp and 4,000 RPM. Numerous additional specifications are provided in Annex B.

| Machine Specifications | See Annex B, Section B.1 |
|---------------------------------|--------------------------------|
| Machine capacity | Technical specification No. 1 |
| Main motor capacity | Technical specification No. 2 |
| Tool turret with "C" | Technical specification No. 3 |
| Travel, power and traverse rate | Technical specification No. 4 |
| Accuracy | Technical specification No. 5 |
| Tailstock | Technical specification No. 6 |
| Dimensions and weight | Technical specification No. 10 |
| Machine construction | Technical specification No. 11 |

A.5.2 Special Equipment

The Contractor shall supply the following special equipment for the item in Section A.5.1: See Annex B.

| Specifications | See Annex B, Section B.1 |
|--|-------------------------------|
| Chip conveyor and cooling liquid | Technical specification No. 7 |
| Lubrication, alarm and automatic systems | Technical specification No. 8 |

A.5.3 Conversational Controller

The Contractor shall supply the following conversational controller for the item in Section A.5.1: See Annex B.

| Specifications | See Annex B, Section B.1 |
|--|-------------------------------|
| Basic characteristics of the conversational simultaneous 4-axis controller | Technical specification No. 9 |

A.5.4 Basic Tools to Be Supplied

The Contractor shall supply the following tools for the item in Section A.5.1: See Annex B.

| Specifications | Value |
|----------------------------|--------------------------|
| Basic tools to be supplied | See Annex B, Section B.2 |

A.6 Certified Products

The machine and all equipment must be certified and approved, in all its components and assembly, for use in Canada.

A.6.1 Electrical Power Supply

The machine must be connected to the electrical sector of DRDC Valcartier: 600 volts, 3 phases. If an electrical device (e.g. transformer) is required to connect the machine to the electrical sector available at DRDC Valcartier, the Contractor is responsible for supplying it at its own cost.

A.7 Delivery and Limitations

The Contractor shall ensure that delivery is handled by a suitable "AIR-RIDE-FLOAT" shipping service to DRDC – Valcartier Research Centre or a storage place located within a 35-km radius of Quebec City. The exact delivery location will be confirmed at contract award.

A.8 Documents and Start-up and Backup Items

With delivery of the equipment, the manuals for programming, operation, maintenance, tools, spare parts, electrical circuits and parameter configuration as well as the inspection form must be supplied in French or in English, depending on availability.

The Contractor must also provide DRDC Valcartier with the start-up and backup disks or USB flash drives for the equipment or other.

A.9 Unloading and Transportation to Installation Site

DRDC Valcartier Research Centre will be responsible:

- (1) for unloading items delivered at the delivery site;
- (2) for transporting items delivered inside the building to the installation area;
- (3) for installing and connecting the machine in the building, including providing the entire wiring system and pneumatic hoses, as required, and attaching the system to the control panel.

A.10 Start-up

The Contractor must perform the start-up in summer 2017 (6 months after the delivery date at the latest). A notice of 30 days will be given to the Contractor to perform the start-up.

The start-up of the machine shall begin within 48 hours of installation.

A.11 Training

A minimum of three (3) days of training, 7.5 hours a day, shall be provided to four technicians on site at DRDC Valcartier Research Centre, in French (mandatory), covering machine use and maintenance. Time taken for the start-up of the machine shall not be counted as training time. The training shall be coordinated with the DRDC Valcartier Centre Technical Authority so that the training is held at the earliest suitable time for the organization. The Contractor shall cover the instructor's costs for meals, accommodations and travel from his or her office to the training site at the delivery address indicated on the instructor contract.

The training shall begin within 48 hours of start-up.

A.12 Travel

The Contractor shall travel to the following location for the indicated installation, start-up and training tasks:

Location: Defence Research and Development Canada – Valcartier
Building 64

Address: 2459 de la Bravoure Road
Building 64
Quebec City, QC G3J 1X5 Canada

A.13 Technical Service and Warranty

The warranty shall begin after the start-up of the equipment.

The technical support team must be capable of responding to service calls within 48 hours. Repairs and maintenance must be carried out on site by qualified technicians.

Technical support shall be provided by a team that can speak French.

A.14 Deliverables

The Contractor shall supply the following items:

| Reference Section | | Description of Deliverables | Quantity and Format |
|-------------------|---|--|---------------------|
| A.5 | Requirement | | |
| | A.5.1 | Simultaneous 4-axis Numerically Controlled Lathe | 1 |
| | A.5.2 | Special Equipment | 1 |
| | A.5.3 | Conversational Controller | 1 |
| | A.5.4 | Basic Tools to Be Supplied | 1 |
| A.6 | Certified Products | | 1 |
| A.7 | Delivery and Limitations | | 1 |
| A.8 | Documents and start-up and Backup items | | 1 |
| A.10 | Start-up | | 1 |
| A.11 | Training | | 1 |

ANNEX B - TECHNICAL SPECIFICATIONS REQUIRED

B.1 Required Technical Specifications

The required technical specifications in the following table are first and foremost a minimum and constitute a non-exhaustive list.

All technical specifications required for operation of the equipment that do not appear in the table below constitute an integral part of this annex and their prices are included in the price of the lathe.

➤ Instructions to bidders:

- 1) In the second-to-last column of the table below, bidders should indicate the specifications they are offering.
- 2) In the last column of the table below, bidders should indicate where the information on the quoted specifications appears in their technical documents enclosed with their bid.
- 3) Do not forget to refer to subsection 4.1.1.1 under Part 4 and enclose your technical documents and the properly completed table below with your bid.

| B.1 Required technical specifications | | Quoted Technical Specifications | Title, Page and/or Line of the Technical Documents |
|---------------------------------------|---|---------------------------------|--|
| 1 | Machine Capacity | | |
| | 1.1 Minimum useful diameter of the part: 22" | | |
| | 1.2 Minimum diameter above the apron: 14.0" | | |
| | 1.3 Minimum turning diameter: 10.0" | | |
| | 1.4 Turning length: 30" min to 50" max | | |
| | 1.5 Int. diameter of spindle ball bearings: 5" min | | |
| | 1.6 Bar capacity: 3" min | | |
| | 1.7 Spindle nose: A1-8 or A2-8 or metric equivalent (specified) | | |
| | 1.8 Spindle ball bearings must be class ABEC 7 or better | | |

| B.1 Required technical specifications | | Quoted Technical Specifications | Title, Page and/or Line of the Technical Documents |
|--|---|---------------------------------|--|
| 2 | Main Motor Capacity | | |
| 2.1 | Minimum continuous motor capacity: 25 hp | | |
| 2.2 | Minimum motor capacity for 20 min: 30 hp | | |
| 2.3 | Maximum speed: 4000 RPM minimum | | |
| 2.4 | Brushless alternating current integral motor, with no gearbox or belt and pulley system (mandatory) | | |
| 2.5 | Motor torque: minimum 300 lb-ft continuously | | |
| 3 | Tool Turret with "C" | | |
| 3.1 | Bidirectional turret with no lateral movement | | |
| 3.2 | Tool holder type. ISO 230-2 or equivalent: Specifications necessary | | |
| 3.3 | Number of positions: 12 minimum | | |
| 3.4 | Number of positions that can use rotary tools: 12 minimum | | |
| 3.5 | External turning tool dimension: 1" minimum | | |
| 3.6 | Interior turning tool dimension: 1.5" | | |
| 3.7 | Live tool speed capacity: 3500 RPM minimum | | |
| 3.8 | Live tool motor power: 7.5 hp minimum | | |
| 3.9 | Drill capacity: 20 mm minimum | | |
| 3.10 | End mill capacity: 20 mm minimum | | |
| 3.11 | Tap capacity: Up to M20 X 2.5 | | |
| 3.12 | Minimum torque of rotary tools: 25 lb-ft | | |
| 3.13 | Turret indexing speed: Minimum 0.3 sec. (1 pos.) | | |
| 3.14 | Cutting fluid that can pass through the turret for use of special tool holders | | |

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| B.1 Required technical specifications | | Quoted Technical Specifications | Title, Page and/or Line of the Technical Documents |
|--|---|---------------------------------|--|
| 4 | Travel, power and Traverse Rate | | |
| | 4.1 "Z" axis travel: 30.0" minimum | | |
| | 4.2 "X" axis travel: 8.75" minimum | | |
| | 4.3 "Y" axis travel: 4" minimum | | |
| | 4.4 "X" axis motor power: 2.5 hp & 1000 lb minimum of thrust | | |
| | 4.5 "Y" axis motor power and torque: 2.5 hp & 800 lb minimum of thrust | | |
| | 4.6 "Z" axis motor power and torque: 2.5 hp & 1250 lb minimum of thrust | | |
| | 4.7 "X" axis quick feed: 787 in/min minimum | | |
| | 4.8 "Y" axis quick feed: 390 in/min minimum | | |
| | 4.9 "Z" axis quick feed: 945 in/min minimum | | |
| | 4.10 "C" axis quick feed: 400 RPM minimum | | |
| 5 | Accuracy | | |
| | 5.1 "X" axis minimum accuracy: .0004"/4" bidirectional | | |
| | 5.2 "Y" axis minimum accuracy: .0004"/2" bidirectional | | |
| | 5.3 "Z" axis minimum accuracy: .0006"/12" bidirectional | | |
| | 5.4 "C" axis minimum accuracy: 20 sec. bidirectional | | |
| | 5.5 "X" axis minimum repeatability: .00008" bidirectional | | |
| | 5.6 "Y" axis minimum repeatability: .00008" bidirectional | | |
| | 5.7 "Z" axis minimum repeatability: .00012" bidirectional | | |
| | 5.8 "C" axis minimum repeatability: 15 sec. bidirectional | | |

| B.1 Required technical specifications | | Quoted Technical Specifications | Title, Page and/or Line of the Technical Documents |
|--|--|---------------------------------|--|
| 6 | Tailstock | | |
| | 6.1 Independent tailstock, programmable in terms of thrust and travel | | |
| | 6.2 Minimum spindle cone dimension: MT-4 or MT-5 | | |
| 7 | Chip Conveyor and Cooling Liquid | | |
| | 7.1 The chip conveyor must be included | | |
| | 7.2 Cooling liquid prefiltered from machining residue | | |
| | 7.3 Wheeled, self-dumping chip container | | |
| | 7.4 High-flow pump of at least 4 imp. gallons/min (30 litres/min) with a pressure of at least 100 psi (14 bar) | | |
| | 7.5 Chip conveyor exits at the front of the machine | | |
| | 7.6 Cooling liquid tank capacity: 150 litres minimum | | |
| 8 | Lubrication, Alarm and Automatic Systems | | |
| | 8.1 Automatic lubrication system for all axes | | |
| | 8.2 Grease or oil lubrication | | |
| | 8.3 Low-level alarms for all lubrication systems | | |
| | 8.4 Direct onscreen help for various alarms | | |
| | 8.5 Tool turret cooling system | | |
| | 8.6 Pedal for opening and closing the chuck | | |

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| B.1 Required technical specifications | | Quoted Technical Specifications | Title, Page and/or Line of the Technical Documents |
|---------------------------------------|---|---------------------------------|--|
| 9 | Basic Characteristics of the Conversational Simultaneous 4-Axis Controller | | |
| | 9.1 10.4" LCD colour screen with graphics card and tool path simulation | | |
| | 9.2 Fully EIA/ISO-compatible, in write and read modes | | |
| | 9.3 The controls shall be able to control 4 simultaneous axes | | |
| | 9.4 PC/MIA and/or ETHERNET and USB network connection | | |
| | 9.5 EIA/ISO program (G-codes and M-codes) fully editable directly from the controller | | |
| | 9.6 NC memory capacity of at least 2 MB | | |
| | 9.7 Program editing in the International System of Units or in the Imperial system | | |
| | 9.8 Machine hard drive with 20 GB of memory and memory editing capacity | | |
| | 9.9 Percentage spindle load meter | | |
| | 9.10 Automatic shutoff | | |
| | 9.11 Memory backup battery | | |
| | 9.12 Graphic tool path trajectory visualization | | |
| | 9.13 Dry Run or Test Mode | | |
| | 9.14 DNC communication | | |
| | 9.15 Operating languages: English mandatory and, if available, French | | |
| | 9.16 Percentage spindle speed and feed rate control buttons | | |
| | 9.17 Collision avoidance on all axes | | |
| | 9.18 Details of all alarm types directly on screen | | |

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| B.1 Required technical specifications | | | Quoted Technical Specifications | Title, Page and/or Line of the Technical Documents |
|--|---|--|---------------------------------|--|
| 9.19 | 4 limitation barriers on the hydraulic chuck, mobile center, tools and axis strokes | | | |
| 9.20 | Direct entry of part dimensions | | | |
| 9.21 | Ability to edit, modify, and view the machining strokes or add a program during machining | | | |
| 9.22 | Three-dimensional display of the part to be milled with part detail zoom | | | |
| 9.23 | 3-dimensional machining stroke visualization | | | |
| 9.24 | Error detection before machining | | | |
| 9.25 | Automatic lubricant and filter maintenance monitor | | | |
| 9.26 | Multiple thread cutting entries | | | |
| 9.27 | Number of tool offsets: 32 minimum | | | |
| 9.28 | Optional block jump feature | | | |
| 9.29 | Overload detector for machine protection | | | |
| 9.30 | Polar coordinate entry | | | |
| 9.31 | Programming help menu directly on screen | | | |
| 9.32 | Minimum of 64 recordable tools | | | |
| 9.33 | Synchronized rigid tapping | | | |
| 9.34 | Thread refinishing | | | |
| 9.35 | Rethreading feature | | | |
| 9.36 | Ability to change spindle speed and tool feed rate during machining of a thread with the same accuracy as initially | | | |
| 9.37 | Tool life management | | | |
| 9.38 | Compensation for tool position, radius, shape and wear | | | |

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| B.1 Required technical specifications | | | Quoted Technical Specifications | Title, Page and/or Line of the Technical Documents |
|--|------------------------------|--|---------------------------------|--|
| | 9.39 | Velocity and feed rate control | | |
| | 9.40 | Automatic machining condition resolution | | |
| 10 | Dimensions and Weight | | | |
| | 10.1 | Maximum floor space (length x width x height), including chip conveyor: 204" X 92" X 85 " (limited space) | | |
| | 10.2 | Machine net weight: minimum 12,500 lbs | | |
| 11 | Machine Construction | | | |
| | 11.1 | The body must be made of high-quality materials offering excellent stability, with no welded or bolted shims On the X , Y and Z axes, ball guides must be sealed, high quality and maintenance-free | | |
| | 11.2 | Preloaded ballscrews must be at least 32 mm in diameter on the X axis | | |
| | 11.3 | Preloaded ballscrews must be at least 32 mm in diameter on the Y axis | | |
| | 11.4 | Preloaded ballscrews must be at least 32 mm in diameter on the Z axis | | |
| | 11.5 | Hardened and ground ways and/or hardened slides on linear or U and X-ball guide rollers | | |
| | 11.6 | Telescopic steel slideway covers and slideway wipers on all axes | | |
| | 11.7 | Protective enclosure for liquids and chips with sliding door(s) and window(s) enabling a clear view of operations over approximately 2 sq. ft., including a door closing fork | | |
| | 11.8 | Integrated light | | |
| | 11.9 | Automatic or manual tool measuring system | | |

B.2 Basic Tools to Be Supplied

The following tools must be supplied with the lathe.

➤ Instructions to Bidders:

- 1) In the last column of the table below, Bidders should indicate the tools offered.
- 2) Remember to attach your technical documents and the table below, duly completed, to your bid.

| B.2 Basic Tools to Be Supplied | | | Tools Offered |
|--|---|----------|---------------|
| The list below is mandatory. Depending on the machine selected, the item numbers of the tools or supports may vary, but these must be of the same type. Equivalences may be accepted following evaluation. | | | |
| Item # | Description | Quantity | |
| 1 | Cap Plug for Live tooling holder | 4 | |
| 2 | Radial Turning Holder (Reverse) | 2 | |
| 3 | Radial Turning Holder (Forward) | 2 | |
| 4 | Axial Facing Holder (Forward) | 1 | |
| 5 | Cut Off Holder | 1 | |
| 6 | Boring Bar Holder 1 1/2" I.D. | 2 | |
| 7 | Boring Bar Sleeve 1 1/2" O.D. X 1" ID | 1 | |
| 8 | Boring Bar Sleeve 1 1/2" O.D. X 1-1/4" ID | 1 | |
| 9 | Boring Bar Sleeve 1 1/2" O.D. X 1/2" ID | 1 | |
| 10 | Boring Bar Sleeve 1 1/2" O.D. X 3/4" ID | 1 | |
| 11 | U-Drill Holder 40mm I.D. | 1 | |

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| B.2 Basic Tools to Be Supplied | | | Tools Offered |
|--|--|--|---------------|
| The list below is mandatory. Depending on the machine selected, the item numbers of the tools or supports may vary, but these must be of the same type. Equivalences may be accepted following evaluation. | | | |
| Item # | Description | Quantity | |
| 12 | Axial Live tooling unit with coolant through ER-32 Collet support | 1 | |
| 13 | Axial Live tooling unit with coolant through on the side ER-32 Collet support | 1 | |
| 14 | Radial Live tooling unit with coolant through ER-32 Collet support | 1 | |
| 15 | Radial Live tooling unit with coolant through on the side ER-32 Collet support | 1 | |
| 16 | Collet chuck ER-32 for Live tooling unit | 4 | |
| 17 | Collet chuck extended ER-16 for live tooling unit | 4 | |
| 18 | Set of 20 collets 5/32 to 3/4 at each1/32 | 1 | |
| 19 | Set of 11 collets ER-16 1/16 to 3/8 at each 1/32 | 1 | |
| 20 | Live Center MT-4 or MT-5 | 1 | |
| 21 | Spring collet chuck for Harding collet # S26 PAD | 1 | |
| 22 | 3-jaw hydraulic chuck: 10” minimum | 1 | |
| 23 | Number of hard jaws (reversible) and soft jaws to supply with the hydraulic chuck: | | |
| | 23.1 | set of hard jaws | 1 |
| | 23.2 | set of soft jaws from the same supplier as the chuck | 10 |

B.3 Acronyms

RPM

Revolutions Per Minute

ABEC 7 or ISO –P4

American Bearing Engineers Committee, the most widely used standards in the United States. Recognized by the ANSI (American National Standards Institute) and accepted by the ISO (International Organization for Standardization). All ball bearings are manufactured to certain standards and tolerances. ABEC defines certain dimensions and characteristics. ABEC uses tolerances ranging from 1 to 9 (1 being the least precise and 9 the most precise). For a high quality machine tool, ABEC 7 is the one used most often for installation and adjustment. For a very high-speed machine (20,000 RPM or +), ABEC 9 would be preferred. ISO-P4 is the European equivalent.

Hp

horse power = power delivered by a motor or other motorized system

psi

Currently used as a unit of pressure pounds per square inch

ISO 230-2

European standard enabling verification of the precision of a machine tool according to a specific methodology. It is comparable to: NMTBA (USA), ISO 230-2 (Europe), BSI BS 4656 Part 16 (Great Britain), VDI/DGQ 3441 (Germany), JIS B 6336-1986 (Japan), and ASME B5.54-92 (USA).

HRC

HARDNESS ROCKWELL "C" (Steel hardness according to the Rockwell scale)

Bar

Equivalent to psi (internationally recognized unit of pressure)

EIA/ISO

Globally recognized language specifically for numerical control, which uses "G-codes" to define the tool path

PCBIA, ETERNET, USB

Different types of connectors used in IT and electronics

DNC

In machining, DNC enables the controls to destroy programming lines for machining once they have been completed by the machine. This leaves more space for the machine controls when machining with a very long program.

COOLANT THROUGH

Phrase used to indicate that the coolant passes through a type of tooling, bracket or other item.

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ANNEX C - BASIS OF PAYMENT**C.1 Pricing**

- (a) Before submitting your prices, please refer to clause **7.6 Payment**, which mentions that the applicable taxes are not included in the prices, among other conditions.
- (b) Please indicate the brand name and model offered and complete the last column of the following table:

| Item | Description | Quantity | Unit | Firm Lot Price |
|------|---|----------|------|----------------|
| 1 | Simultaneous 4-Axis Numerically Controlled Lathe and its components <ul style="list-style-type: none"> Brand Name Offered: _____ Model Offered: _____ According to Section A.5 of Annex A; and According to section B.1 of Annex B. | 1 | lot | \$ |
| 2 | Tool Sets to Provide <ul style="list-style-type: none"> According to Section B.2 of Annex B. | 1 | lot | \$ |
| 3 | Certified Products <ul style="list-style-type: none"> According to clause 7.12 Electrical Equipment of this document; and According to Section A.6 of Annex A. | 1 | lot | \$ |
| 4 | Delivery and Limitation <ul style="list-style-type: none"> According to clause 7.13 Shipping Instructions - Delivery at Destination of this document; and According to Section A.7 of Annex A. | 1 | lot | \$ |

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| Item | Description | Quantity | Unit | Firm Lot Price |
|-----------------------|--|----------|------|----------------|
| 5 | Documentation, Stat-up and Backup Items <ul style="list-style-type: none">According to Section A.8 of Annex A. | 1 | lot | \$ |
| 6 | Start-up <ul style="list-style-type: none">According to Section A.10 of Annex A;Labour costs, tolling, travel and living expenses included. | 1 | lot | \$ |
| 7 | Training <ul style="list-style-type: none">According to Section A.11 of Annex A; andLabour costs, tooling, travel and living expenses included. | 1 | lot | \$ |
| Total Contract Value: | | | | \$ |

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CCC No./N° CCC - FMS No./N° VME

ANNEX D - SECURITY REQUIREMENTS CHECK LIST

D.1 Annex D

Annex D must be inserted here and constitutes an integral part of this document.

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ANNEX E - ORIGINAL EQUIPMENT MANUFACTURER (OEM) CERTIFICATION FORM

Titre: Simultaneous 4-Axis Numerically Controlled Lathe

Original Equipment Manufacturer (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

Name of Bidder

ANNEX F - PRESENTATION OF YOUR BID

F.1 Check List

Below is a checklist of the contents of your bid. This list is not an exhaustive list; it remains the Bidder's responsibility to prepare its bid in accordance with the instructions contained in the Request For Proposal (RFP) and provide a comprehensible and sufficiently detailed bid, including all requested pricing details that will permit a complete evaluation in accordance with the criteria set out in the RFP.

| | |
|--|---|
| Pagination of <u>Document 1 of 2</u> (document of only one page) | |
| Page 1 of 1 ↓ | Bidders should include with their bid, the first sheet of this RFP properly completed and signed. Refer to 2003 Standard Instructions mentioned in clause 2.1 Standard Instructions, Clauses and Conditions . |
| Pagination of <u>Document 2 of 2</u> (document of 43 pages) | |
| Page 6 ↓ | Bidders must submit their bid only to the address indicated in clause 2.2 Submission of Bids . |
| Pages 10 and 11 | Bids of Bidders must meet the mandatory technical criteria described in clause 4.1.1.1 Mandatory Technical Evaluation Criteria . |
| Page 13 | <u>This is applicable only if an offence was committed.</u> Bidders must include with their bid, the Declaration Form duly completed as indicated Clause 5.1.1 Declaration of Convicted Offences . |
| Page 13 | Bidders must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Refer to clause 5.2.1 Integrity Provisions – List of Names . |
| Page 19 | Bidders should submit with their bid, clause 7.5.3 Contractor's Representatives properly completed. |
| Pages 29 to 37 | Bidders should include with their bid, Annex B - Technical Specifications Required duly completed. |
| Pages 39 and 40 | Bidders must include with their bid, Annex C - Basis of Payment duly completed. |
| Page 42 | Bidders should include with their bid, Annex E - Original Equipment Manufacturer (OEM) Certification Form duly completed. |

ANNEXE D - LVERS

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ANNEX D - SRCL

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Security Classification / Classification de sécurité
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SECURITY REQUIREMENTS CHECK LIST (SRCL)

LISTE DE VÉRIFICATION DES EXIGENCES RELATIVES À LA SÉCURITÉ (LVERS)

| | | |
|---|--|--|
| PART A - CONTRACT INFORMATION / PARTIE A - INFORMATION CONTRACTUELLE | | |
| 1. Originating Government Department or Organization / Ministère ou organisme gouvernemental d'origine MDN | | 2. Branch or Directorate / Direction générale ou Direction RDDC |
| 3. a) Subcontract Number / Numéro du contrat de sous-traitance | | 3. b) Name and Address of Subcontractor / Nom et adresse du sous-traitant |
| 4. Brief Description of Work / Brève description du travail Achat d'un tour CNC 4 axes simultanées | | |
| 5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées? | | <input checked="" type="checkbox"/> No Non <input type="checkbox"/> Yes Oui |
| 5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques? | | <input checked="" type="checkbox"/> No Non <input type="checkbox"/> Yes Oui |
| 6. Indicate the type of access required / Indiquer le type d'accès requis | | |
| 6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c) | | <input checked="" type="checkbox"/> No Non <input type="checkbox"/> Yes Oui |
| 6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé. | | <input type="checkbox"/> No Non <input checked="" type="checkbox"/> Yes Oui |
| 6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit? | | <input checked="" type="checkbox"/> No Non <input type="checkbox"/> Yes Oui |
| 7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès | | |
| Canada <input type="checkbox"/> | NATO / OTAN <input type="checkbox"/> | Foreign / Étranger <input type="checkbox"/> |
| 7. b) Release restrictions / Restrictions relatives à la diffusion | | |
| No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/> | All NATO countries Tous les pays de l'OTAN <input type="checkbox"/> | No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/> |
| Not releasable À ne pas diffuser <input type="checkbox"/> | | |
| Restricted to: / Limité à: <input type="checkbox"/> | Restricted to: / Limité à: <input type="checkbox"/> | Restricted to: / Limité à: <input type="checkbox"/> |
| Specify country(ies): / Préciser le(s) pays: | Specify country(ies): / Préciser le(s) pays: | Specify country(ies): / Préciser le(s) pays: |
| 7. c) Level of information / Niveau d'information | | |
| PROTECTED A PROTÉGÉ A <input type="checkbox"/> | NATO UNCLASSIFIED NATO NON CLASSIFIÉ <input type="checkbox"/> | PROTECTED A PROTÉGÉ A <input type="checkbox"/> |
| PROTECTED B PROTÉGÉ B <input type="checkbox"/> | NATO RESTRICTED NATO DIFFUSION RESTREINTE <input type="checkbox"/> | PROTECTED B PROTÉGÉ B <input type="checkbox"/> |
| PROTECTED C PROTÉGÉ C <input type="checkbox"/> | NATO CONFIDENTIAL NATO CONFIDENTIEL <input type="checkbox"/> | PROTECTED C PROTÉGÉ C <input type="checkbox"/> |
| CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/> | NATO SECRET NATO SECRET <input type="checkbox"/> | CONFIDENTIAL CONFIDENTIEL <input type="checkbox"/> |
| SECRET SECRET <input type="checkbox"/> | COSMIC TOP SECRET COSMIC TRÈS SECRET <input type="checkbox"/> | SECRET SECRET <input type="checkbox"/> |
| TOP SECRET TRÈS SECRET <input type="checkbox"/> | | TOP SECRET TRÈS SECRET <input type="checkbox"/> |
| TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/> | | TOP SECRET (SIGINT) TRÈS SECRET (SIGINT) <input type="checkbox"/> |

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PART A (continued) / PARTIE A (suite)

8. Will the supplier require access to PROTECTED and/or CLASSIFIED COMSEC information or assets? ☒ No ☐ Yes
Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS? ☒ Non ☐ Oui

If Yes, indicate the level of sensitivity:

Dans l'affirmative, indiquer le niveau de sensibilité :

9. Will the supplier require access to extremely sensitive INFOSEC information or assets? ☒ No ☐ Yes
Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate? ☒ Non ☐ Oui

Short Title(s) of material / Titre(s) abrégé(s) du matériel :

Document Number / Numéro du document :

PART B - PERSONNEL (SUPPLIER) / PARTIE B - PERSONNEL (FOURNISSEUR)

10. a) Personnel security screening level required / Niveau de contrôle de la sécurité du personnel requis

- | | | | |
|---|---|---|--|
| <input checked="" type="checkbox"/> RELIABILITY STATUS COTE DE FIABILITÉ | <input type="checkbox"/> CONFIDENTIAL CONFIDENTIEL | <input type="checkbox"/> SECRET SECRET | <input type="checkbox"/> TOP SECRET TRÈS SECRET |
| <input type="checkbox"/> TOP SECRET - SIGINT TRÈS SECRET - SIGINT | <input type="checkbox"/> NATO CONFIDENTIAL NATO CONFIDENTIEL | <input type="checkbox"/> NATO SECRET NATO SECRET | <input type="checkbox"/> COSMIC TOP SECRET COSMIC TRÈS SECRET |
| <input type="checkbox"/> SITE ACCESS ACCÈS AUX EMPLACEMENTS | | | |

Special comments:

Commentaires spéciaux : Accès au site de RDDC pour installation et entretien de l'équipement et période de formation du personnel utilis:

NOTE: If multiple levels of screening are identified, a Security Classification Guide must be provided.

REMARQUE : Si plusieurs niveaux de contrôle de sécurité sont requis, un guide de classification de la sécurité doit être fourni.

10. b) May unscreened personnel be used for portions of the work? ☒ No ☐ Yes
Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail? ☒ Non ☐ Oui
If Yes, will unscreened personnel be escorted? ☐ No ☐ Yes
Dans l'affirmative, le personnel en question sera-t-il escorté? ☐ Non ☐ Oui

PART C - SAFEGUARDS (SUPPLIER) / PARTIE C - MESURES DE PROTECTION (FOURNISSEUR)

INFORMATION / ASSETS / RENSEIGNEMENTS / BIENS

11. a) Will the supplier be required to receive and store PROTECTED and/or CLASSIFIED information or assets on its site or premises? ☒ No ☐ Yes
Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS? ☒ Non ☐ Oui
11. b) Will the supplier be required to safeguard COMSEC information or assets? ☒ No ☐ Yes
Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC? ☒ Non ☐ Oui

PRODUCTION

11. c) Will the production (manufacture, and/or repair and/or modification) of PROTECTED and/or CLASSIFIED material or equipment occur at the supplier's site or premises? ☒ No ☐ Yes
Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ? ☒ Non ☐ Oui

INFORMATION TECHNOLOGY (IT) MEDIA / SUPPORT RELATIF À LA TECHNOLOGIE DE L'INFORMATION (TI)

11. d) Will the supplier be required to use its IT systems to electronically process, produce or store PROTECTED and/or CLASSIFIED information or data? ☒ No ☐ Yes
Le fournisseur sera-t-il tenu d'utiliser ses propres systèmes informatiques pour traiter, produire ou stocker électroniquement des renseignements ou des données PROTÉGÉS et/ou CLASSIFIÉS? ☒ Non ☐ Oui
11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency? ☒ No ☐ Yes
Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale? ☒ Non ☐ Oui

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PART C - (continued) / PARTIE C - (suite)

For users completing the form manually use the summary chart below to indicate the category(ies) and level(s) of safeguarding required at the supplier's site(s) or premises.

Les utilisateurs qui remplissent le formulaire manuellement doivent utiliser le tableau récapitulatif ci-dessous pour indiquer, pour chaque catégorie, les niveaux de sauvegarde requis aux installations du fournisseur.

For users completing the form online (via the Internet), the summary chart is automatically populated by your responses to previous questions.

Dans le cas des utilisateurs qui remplissent le formulaire en ligne (par Internet), les réponses aux questions précédentes sont automatiquement saisies dans le tableau récapitulatif.

SUMMARY CHART / TABLEAU RÉCAPITULATIF

| Category Catégorie | PROTECTED PROTÉGÉ | | | CLASSIFIED CLASSIFIÉ | | | NATO | | | | COMSEC | | | | | |
|--|----------------------|---|---|----------------------------------|--------|-------------------------------------|---|--|----------------|---|----------------------|---|---|--------------|--------|-------------------------------------|
| | A | B | C | CONFIDENTIAL CONFIDENTIEL | SECRET | TOP SECRET TRÈS SECRET | NATO RESTRICTED NATO DIFFUSION RESTREINTE | NATO CONFIDENTIAL NATO CONFIDENTIEL | NATO SECRET | COSMIC TOP SECRET COSMIC TRÈS SECRET | PROTECTED PROTÉGÉ | | | CONFIDENTIAL | SECRET | TOP SECRET TRÈS SECRET |
| | | | | | | | | | | | A | B | C | | | |
| Information / Assets Renseignements / Biens Production | | | | | | | | | | | | | | | | |
| IT Media / Support TI | | | | | | | | | | | | | | | | |
| IT Link / Lien électronique | | | | | | | | | | | | | | | | |

12. a) Is the description of the work contained within this SRCL PROTECTED and/or CLASSIFIED?

La description du travail visé par la présente LVERS est-elle de nature PROTÉGÉE et/ou CLASSIFIÉE?

☒ No ☐ Yes
Non Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification".

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire.

12. b) Will the documentation attached to this SRCL be PROTECTED and/or CLASSIFIED?

La documentation associée à la présente LVERS sera-t-elle PROTÉGÉE et/ou CLASSIFIÉE?

☒ No ☐ Yes
Non Oui

If Yes, classify this form by annotating the top and bottom in the area entitled "Security Classification" and indicate with attachments (e.g. SECRET with Attachments).

Dans l'affirmative, classifiez le présent formulaire en indiquant le niveau de sécurité dans la case intitulée « Classification de sécurité » au haut et au bas du formulaire et indiquer qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).



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PART D - AUTHORIZATION / PARTIE D - AUTORISATION

13. Organization Project Authority / Chargé de projet de l'organisme

Name (print) - Nom (en lettres moulées)

Jocelyn Lecours

Title - Titre

Responsable de groupe

Signature

Telephone No. - N° de téléphone
418-844-4000-4258

Facsimile No. - N° de télécopieur
418-844-4716

E-mail address - Adresse courriel
jocelyn.lecours@drdc-rddc.gc.ca

Date

22/08/2016

14. Organization Security Authority / Responsable de la sécurité de l'organisme

Name (print) - Nom (en lettres moulées)

**Sasa Medjovic - DDSO - Industrial Security
Senior Security Analyst
Tel: 613-996-0286
E-mail: sasa.medjovic@forces.gc.ca**

Title - Titre

Industrial Security

Signature

Telephone No. - N° de téléphone

Facsimile No. - N° de télécopieur

E-mail address - Adresse courriel

Date

2016- Aug 24

15. Are there additional instructions (e.g. Security Guide, Security Classification Guide) attached?

Des instructions supplémentaires (p. ex. Guide de sécurité, Guide de classification de la sécurité) sont-elles jointes?



No

Non



Yes

Oui

16. Procurement Officer / Agent d'approvisionnement

Name (print) - Nom (en lettres moulées)

Title - Titre

Signature

Telephone No. - N° de téléphone

Facsimile No. - N° de télécopieur

E-mail address - Adresse courriel

Date

17. Contracting Security Authority / Autorité contractante en matière de sécurité

Name (print) - Nom (en lettres moulées)

Title - Titre

Signature

Telephone No. - N° de téléphone

Facsimile No. - N° de télécopieur

E-mail address - Adresse courriel

Date

05-OCT-2016

Jacques Saumur
Contract Security Officer, Contract Security Division
Jacques.Saumur@tpsgc-pwgsc.gc.ca
Tel/Tél - 613-948-1732 / Fax/Téléc - 613-954-4171