



**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
**Pacific Region**  
**401 - 1230 Government Street**  
**Victoria, B.C.**  
**V8W 3X4**  
**Bid Fax: (250) 363-3344**

**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**

<b>Title - Sujet</b> High Precision Cylinder Grinder	
<b>Solicitation No. - N° de l'invitation</b> W3555-179182/A	<b>Date</b> 2016-12-08
<b>Client Reference No. - N° de référence du client</b> W3555-179182	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$VIC-240-7140	
<b>File No. - N° de dossier</b> VIC-6-39178 (240)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2017-01-18</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Pacific Standard Time PST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Hogg(VIC), Mike	<b>Buyer Id - Id de l'acheteur</b> vic240
<b>Telephone No. - N° de téléphone</b> (250) 217-5640 ( )	<b>FAX No. - N° de FAX</b> (250) 363-3344
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE BLDG. 250, DOCKYARD CFB ESQUIMALT VICTORIA British Columbia V9A7N2 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

Public Works and Government Services Canada - Pacific  
Region  
401 - 1230 Government Street  
Victoria, B. C.  
V8W 3X4

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

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

No Security requirements. See Annex C

### **1.2 Requirement**

Annex "A"

### **1.3 Set-aside for Comprehensive Land Claims Agreement(s) Beneficiaries**

N/A

### **1.4 Set-aside Under the Federal Government Procurement Strategy for Aboriginal Business (PSAB)**

N/A

### **1.5 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.

### **1.6 National Security Exception**

N/A

### **1.7 Trade Agreements**

"The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT)."

### **1.8 Canadian Content**

N/A

## **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.

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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 \_\_\_\_\_ 2015-07-03 Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

### **2.1.1 SACC Manual Clauses**

## **2.2 Submission of Bids**

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

## **2.3 Former Public Servant**

## **2.4 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than 15 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.

## **2.5 Applicable Laws**

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

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 (1) hard copy) .

Section II: Financial Bid (1) hard copy)

Section III: Certifications (1) hard copy).

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Section IV: Additional Information (1) hard copy).

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft 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) (<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 explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

**Section II: Financial Bid**

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

**3.1.1 Exchange Rate Fluctuation**

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive

[C3011T](#) \_\_2013-11-06, Exchange Rate Fluctuation

**3.1.2 SACC Manual Clauses**

**Section III: Certifications**

Bidders must submit the certifications 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.

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria**

Refer to Statement of Requirements.

#### **4.1.2 Financial Evaluation**

SACC Manual Clause [A0220T](#) 2014-06-26, Evaluation of Price

#### **4.2 Basis of Selection**

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

### **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. 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 Declaration of Convicted Offences**

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed [Declaration Form](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

#### **5.2 Certifications Precedent to Contract Award and Additional Information**

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

##### **5.2.1 Integrity Provisions – List of Names**

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

## 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from [Employment and Social Development Canada \(ESDC\) - Labour's](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) website.

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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" 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 this Contract.

### 6.2 Requirement

The Department of National Defence (DND) have a requirement for one (1) Cylindrical Grinder to be used in the machine shop, work center at DND Fleet Maintenance Facility Cape Breton, Victoria, BC.

### 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.

### 6.4 Term of Contract

Delivery is requested on or before March 31, 2017.

The best delivery offered is \_\_\_\_\_ weeks from contract awarded

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File No. - N° du dossier  
VIC-5-39178

Buyer ID - Id de l'acheteur  
vic240  
CCC No./N° CCC - FMS No./N° VME

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## **6.5 Authorities**

### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Mike Hogg  
Title: Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch: Victoria  
Directorate: Pacific  
Address: 401-1230 Government Street  
Victoria, BC V8W 3X4  
  
Telephone: 250- 217-5640  
Facsimile: 250-363-0395  
E-mail address: mike.hogg@pwgsc-tpsgc.gc.ca

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

### **6.5.2 Project Authority**

The Technical Authority for the Contract is:

TBD

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

### **6.5.3 Contractor's Representative**

## **6.6 Proactive Disclosure of Contracts with Former Public Servants**

## **6.7 Payment**

### **6.7.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a \_\_\_\_\_ (insert "firm price" OR "firm unit price(s)" OR "firm lot price(s)", as specified in \_\_\_\_\_ insert "contract" OR "in Annex \_\_\_\_" for a cost of \$ \_\_\_\_\_ insert the amount at contract award). Customs duties are \_\_\_\_\_ (insert "included", "excluded" OR "subject to exemption") and Applicable Taxes are extra.

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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.

#### **6.7.2 Limitation of Price**

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.

SACC Manual clause C6000C \_\_\_\_\_ 2011-05-16 Limitation of Price

#### **6.7.4 SACC Manual Clauses**

#### **6.8 Invoicing Instructions**

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

#### **6.9 Certifications**

See part 5 for certifications required

##### **6.9.1 Compliance**

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

##### **6.9.2 Federal Contractors Program for Employment Equity - Default by the Contractor**

##### **6.9.3 SACC Manual Clauses**

#### **6.10 Applicable Laws**

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

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vic240  
CCC No./N° CCC - FMS No./N° VME

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### 6.11 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)
- (c) Annex A, Requirement;
- (d) Annex B; Basis of Payment
- (d) the Contractor's bid dated \_\_\_\_\_

### 6.12 Defence Contract

SACC Manual clause [A9006C](#) \_\_\_\_\_ (2012-07-16) Defence Contract

Annex A – Requirement

**Overview:**

The following is the minimum Government of Canada requirements for one (1) cylindrical grinder unit to be used in the machine shop at Fleet Maintenance Facility CAPE BRETON (FMF CB). This unit is replacing an old cylindrical grinder that is beyond economical repair

Item	Minimum Mandatory Requirements	Comments	Bid Ref Page #	Pass/Fail
<b>REGULATORY REQUIREMENTS</b>				
1.0	All electrical equipment supplied under the contract must be certified or approved for use in accordance with the <i>Canadian Electrical Code, Part 1</i> , before delivery, by a certification organization accredited by the Standards Council of Canada.			
<b>UNIT REQUIREMENTS</b>				
1.1	Unit must be a cylindrical grinder.			
1.2	Unit must be able to be manually controlled. Unit must have individual handwheels/levers/controls for fine manual positioning of each axis.			
1.3	Unit must have a distance between centres of 400 mm (15.7”), at a minimum.			
1.4	Unit must have a swing over the table of 200 mm (7.9”), at a minimum.			
1.5	Unit’s centers must be rated to support a workpiece load of 60 kg (132 lbs.), at a minimum.			
1.6	Unit’s grinding capacity must be a 180 mm (7.1”) diameter, at a minimum.			
1.7	Unit must have a grinding wheel head with the following specifications, at a minimum:			
1.7.1	• Minimum Feed Increment Input: 0.001 mm/0.00005”			
1.7.2	• Travel by Handwheel: 135 mm (5.3”)			
1.7.3	• Swivel Angle Range: ±30°			
1.7.4	• Spindle Power Rating: 2.5 HP (1.87 kW)			
1.7.5	• Two (2) Spindle Speed Settings: <ul style="list-style-type: none"> <li>○ Setting #1: Between 2000 RPM to 2300 RPM</li> <li>○ Setting #2: Between 2301 RPM to 2750 RPM</li> </ul>			
1.7.6	• Sliding Seat Adjustment: 90 mm (3.5”)			
1.7.7	• Rapid Traverse Function			
1.8	Unit must have a grinding wheel with the following specifications, at a minimum:			
1.8.1	• Diameter: 305 mm to 405 mm (12” to 16”)			
1.8.2	• Width: 38 mm to 50 mm (1.5” to 2”)			
1.8.3	• Wheel Bore Inner Diameter: 127 mm (5”)			
1.9	Unit must have a handwheel for the feed of the table with following specifications, at minimum:			

Item	Minimum Mandatory Requirements	Comments	Bid Ref Page #	Pass/Fail
1.9.1	<ul style="list-style-type: none"> <li>Feed per each handwheel turn must have two (2) steps within the following ranges: <ul style="list-style-type: none"> <li>Step 1: Between 15 mm/rev to 25 mm/rev (0.6 in/rev to 1.0 in/rev)</li> <li>Step 2: Between 1.5 mm/rev to 2.5 mm/rev (0.06 in/rev to 0.1 in/rev)</li> </ul> </li> </ul>			
1.9.2	<ul style="list-style-type: none"> <li>Graduation markings on handwheel must be displayed in inches. Graduation markings on handwheel must be the following for each feed step: <ul style="list-style-type: none"> <li>Step 1: 0.01"</li> <li>Step 2: 0.001"</li> </ul> </li> </ul>			
1.10	Unit must have a handwheel for the feed of the wheel head with following specifications, at minimum:			
1.10.1	<ul style="list-style-type: none"> <li>Feed per each handwheel turn must not exceed 2 mm/rev (0.08 in/rev)</li> </ul>			
1.10.2	<ul style="list-style-type: none"> <li>Graduation markings on handwheel must be displayed in inches. Graduation markings on handwheel must be 0.0002".</li> </ul>			
1.11	Unit must have a table with the following specifications, at a minimum:			
1.11.1	<ul style="list-style-type: none"> <li>Swivel Angle Range: -3° to +12°</li> </ul>			
1.11.2	<ul style="list-style-type: none"> <li>Variable Traverse Speed Range: 50 mm/min to 4000 mm/min (2 in/min to 157 in/min)</li> </ul>			
1.11.3	<ul style="list-style-type: none"> <li>Auto-reciprocating stroke: <ul style="list-style-type: none"> <li>Minimum: 10 mm (0.40")</li> <li>Maximum: 400 mm (15.75")</li> </ul> </li> </ul>			
1.12	Unit must have a work spindle head with the following specifications, at a minimum:			
1.12.1	<ul style="list-style-type: none"> <li>Center Taper: Morse Taper, must be same as tailstock (Item 1.20.1)</li> </ul>			
1.12.2	<ul style="list-style-type: none"> <li>Swivel Angle Range: +90° to -30°</li> </ul>			
1.12.3	<ul style="list-style-type: none"> <li>Load Capacity of Spindle including Work Holder: 15 kg (33 lbs) workpiece with a maximum length of 100 mm</li> </ul>			
1.12.4	<ul style="list-style-type: none"> <li>Spindle Power Rating: 1 HP (0.75 kW)</li> </ul>			
1.12.5	<ul style="list-style-type: none"> <li>Variable Spindle Speed Range: 10 RPM to 300 RPM</li> </ul>			
1.13	Unit must have a tailstock with the following specifications, at a minimum:			
1.13.1	<ul style="list-style-type: none"> <li>Center Taper: Morse Taper, must be same as work spindle (Item 1.19.1)</li> </ul>			
1.13.2	<ul style="list-style-type: none"> <li>Stroke: 19 mm (0.75")</li> </ul>			
1.14	Unit must have a coolant system with a magnetic separator and paper filter.			
1.15	Unit must not exceed the following overall dimensions (including unit's travel envelope and accessory systems/equipment) and weight:			
1.15.1	<ul style="list-style-type: none"> <li>Length: 2500 mm (98.4")</li> </ul>			
1.15.2	<ul style="list-style-type: none"> <li>Depth: 1950 mm (76.7")</li> </ul>			
1.15.3	<ul style="list-style-type: none"> <li>Weight: 2500 kg (5500 lbs.)</li> </ul>			
1.16	Unit must be able to connect to a 480 V, 60 Hz, 3 phase power source. Full load amperage must not exceed 16 Amps. For units requiring other voltages, supplier must supply a suitable transformer.			

Item	Minimum Mandatory Requirements	Comments	Bid Ref Page #	Pass/Fail
1.17	Unit must have a wheel head guard. Wheel head guard must have provisions for connecting a dust collection system.			
1.18	Unit must be fitted with an 'Emergency Stop' self-locking type button.			
1.19	Unit must have work light to illuminate the workpiece.			
1.20	Unit must have a 2-axis digital read-out system with the following specifications, at a minimum:			
1.20.1	<ul style="list-style-type: none"> <li>Display Resolution: 0.001 mm/0.00005"</li> </ul>			
1.20.2	<ul style="list-style-type: none"> <li>Must be displayed through a seven-segment LED display or integrated NC controller display</li> </ul>			
1.20.3	<ul style="list-style-type: none"> <li>Digital read-out units must be able to be displayed in imperial (inches) and metric (millimeters and/or microns)</li> </ul>			
1.21	Operating instruction labels must be clearly identified and printed in English.			
1.22	Any pinch points, hazard areas, operator safety concerns, and moving components must be identified and clearly labelled in English.			
<b>TOOLING REQUIREMENTS</b>				
1.23	Unit must come with the following tooling, at a minimum:			
1.23.1	<ul style="list-style-type: none"> <li>Internal Grinding Attachment – Qty. 1</li> </ul>			
1.23.2	<ul style="list-style-type: none"> <li>Carbide Tipped Work Centers – Qty. 2</li> </ul>			
1.23.3	<ul style="list-style-type: none"> <li>3-Jaw Scroll Chuck with Reversible Jaws – Between 115 mm (4.5") to 140 mm (5.5") Diameter Capacity – Qty. 1</li> </ul>			
1.23.4	<ul style="list-style-type: none"> <li>Adjustable Independent 4-Jaw Chuck – 150 mm (5.9") Diameter Capacity – Qty. 1</li> </ul>			
1.23.5	<ul style="list-style-type: none"> <li>Wheel Flanges and Balancing Weights – Qty. 6</li> </ul>			
1.23.6	<ul style="list-style-type: none"> <li>Set of Cam Lock type Work Driving Dogs – Qty. 1</li> </ul>			
1.23.7	<ul style="list-style-type: none"> <li>Diamond Tool Holder for Internal and External Grinding Wheel (Table Mounted Type) – Qty. 1</li> </ul>			
1.23.8	<ul style="list-style-type: none"> <li>Tailstock-mounted Diamond Tool Holder – Qty. 1</li> </ul>			
1.23.9	<ul style="list-style-type: none"> <li>Table-mounted Diamond Tool Holder – Qty. 1</li> </ul>			
1.23.10	<ul style="list-style-type: none"> <li>Wheel Balancing Stand and Arbor – Qty. 1</li> </ul>			
1.23.11	<ul style="list-style-type: none"> <li>Angle Trimming Device – Qty. 1</li> </ul>			
1.23.12	<ul style="list-style-type: none"> <li>Radius Trimming Device – Qty. 1</li> </ul>			
1.23.13	<ul style="list-style-type: none"> <li>3-Point Steady Rest – Qty. 1</li> </ul>			
1.23.14	<ul style="list-style-type: none"> <li>2-Point Steady Rest (Long Bar Grinding Type) – Qty. 2</li> </ul>			
1.23.15	<ul style="list-style-type: none"> <li>Collet Chuck – Qty. 1</li> </ul>			
1.23.16	<ul style="list-style-type: none"> <li>Collet Sets <ul style="list-style-type: none"> <li>Imperial Collet Set: Ranging from 1/8" diameter to 1" diameter with 1/64" increments</li> <li>Metric Collet Set: Ranging from 2 mm diameter to 26 mm diameter with 0.5 mm increments</li> <li>Collet sets must be compatible with supplied collet chuck (Item 1.23.15)</li> </ul> </li> </ul>			
1.24	All supplied tooling must be compatible with the supplied unit.			
<b>ADDITIONAL REQUIREMENTS</b>				

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vic240  
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Item	Minimum Mandatory Requirements	Comments	Bid Ref Page #	Pass/ Fail
1.25	The supplied unit must include maintenance and operation manuals for the as built unit. Manuals must be provided in hard copy and digital format (PDF format on CD or DVD only). Manuals must be published in English. A minimum of two (2) hard copies and one (1) digital copy of the manual must be provided. Manuals must include vendor recommended installation instructions/drawings, maintenance schedules, hydraulic schematics, electrical schematics, and spare parts list.			
1.26	Supplier must provide technical support via phone and email within 12 months after delivery.			
1.27	The supplied unit must include full parts and labour warranty for a minimum of 12 months.			

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**Annex B**  
**Basis of Payment**

The unit prices below shall be firm and in Canadian funds including Canadian customs duties, excise taxes, delivery and installation charges which are to be Delivered Duty Paid (DDP) to destination as indicated herein.

The amount of the Goods and Services Tax or Harmonized Tax shall be shown as a separate item.

Item	Description	U of I	Qty	Unit Price	Extended Price
1	Cylindrical Grinder as per detailed mandatory requirements listed in Annex A	LOT	1	\$	\$
<b>GST</b>					<b>\$</b>
<b>TOTAL COST</b>					<b>\$</b>

Delivery is requested on or before March 31, 2017

The best delivery offered is \_\_\_\_\_ weeks from contract award.