



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

**Bid Receiving  
PWGSC  
33 City Centre Drive  
Suite 480C  
Mississauga  
Ontario  
L5B 2N5  
Bid Fax: (905) 615-2095**

**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> CMOS Astronomical Detector	
<b>Solicitation No. - N° de l'invitation</b> W0114-185539/A	<b>Date</b> 2017-11-01
<b>Client Reference No. - N° de référence du client</b> W0114-185539	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-015-7399	
<b>File No. - N° de dossier</b> TOR-7-40083 (015)	<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 2017-12-12</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<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> Abela, Aaron	<b>Buyer Id - Id de l'acheteur</b> tor015
<b>Telephone No. - N° de téléphone</b> (905) 615-2061 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE Receipts and Issue 5 Somme Avenue, Bldg. C-36 Kingston Ontario K7K7B4 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  
Ontario Region  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5

<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>

## TABLE OF CONTENTS

<b>PART 1 - GENERAL INFORMATION .....</b>	<b>2</b>
1.1 SECURITY REQUIREMENTS .....	2
1.2 REQUIREMENT .....	2
1.3 DEBRIEFINGS .....	2
1.4 TRADE AGREEMENTS .....	2
<b>PART 2 - BIDDER INSTRUCTIONS.....</b>	<b>2</b>
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS.....	2
2.2 SUBMISSION OF BIDS .....	2
2.3 ENQUIRIES - BID SOLICITATION.....	2
2.4 APPLICABLE LAWS.....	3
<b>PART 3 - BID PREPARATION INSTRUCTIONS .....</b>	<b>3</b>
3.1 BID PREPARATION INSTRUCTIONS .....	3
<b>PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION.....</b>	<b>4</b>
4.1 EVALUATION PROCEDURES .....	4
4.2 BASIS OF SELECTION .....	4
<b>PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION.....</b>	<b>4</b>
5.1 CERTIFICATIONS REQUIRED WITH THE BID.....	5
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION.....	5
<b>PART 6 - RESULTING CONTRACT CLAUSES.....</b>	<b>5</b>
6.1 SECURITY REQUIREMENTS .....	5
6.2 REQUIREMENT .....	6
6.3 STANDARD CLAUSES AND CONDITIONS.....	6
6.4 TERM OF CONTRACT .....	6
6.5 AUTHORITIES .....	6
6.6 PAYMENT .....	7
6.7 INVOICING INSTRUCTIONS .....	8
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION.....	8
6.9 APPLICABLE LAWS.....	8
6.10 PRIORITY OF DOCUMENTS .....	8
6.11 INSURANCE REQUIREMENTS.....	8
<b>ANNEX "A" .....</b>	<b>9</b>
REQUIREMENT .....	9
<b>ANNEX "B" .....</b>	<b>11</b>
BASIS OF PAYMENT.....	11
<b>ANNEX "C" .....</b>	<b>12</b>
ELECTRONIC PAYMENT INSTRUMENTS.....	12
<b>ANNEX "D" .....</b>	<b>13</b>
ADDITIONAL CERTIFICATIONS.....	13

## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement associated with this bid solicitation.

### **1.2 Requirement**

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

### **1.3 Debriefings**

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

### **1.4 Trade Agreements**

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

## **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 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: 60 days  
Insert: 90 days

### **2.2 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 Enquiries - Bid Solicitation**

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

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

proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

## 2.4 Applicable Laws

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

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

## PART 3 - BID PREPARATION INSTRUCTIONS

### 3.1 Bid Preparation Instructions

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

Section I: Technical Bid (2 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) (<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.

##### 3.1.1 Electronic Payment of Invoices – Bid

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

If Annex "C" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

### **3.1.2 Exchange Rate Fluctuation**

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

### **3.1.3 SACC Manual Clauses**

#### **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 Financial Evaluation**

##### **4.1.1.1 Mandatory Financial Criteria**

The bidder must submit firm unit or firm lot prices excluding GST/HST in accordance with the Basis of Payment at Annex B.

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

The evaluated price will be calculated using the Bidder's proposed Firm unit price multiplied by the quantity as provided in Annex B.

#### **4.1.3 SACC Manual Clause**

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. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in

default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

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

## **5.1 Certifications Required with the Bid**

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

### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

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

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

### **5.2.1 Integrity Provisions – Required Documentation**

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

### **5.2.2 Federal Contractors Program for Employment Equity - Bid Certification**

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/canada-esdc-labour) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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

## **PART 6 - RESULTING CONTRACT CLAUSES**

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

### **6.1 Security Requirements**

**6.1.1** There is no security requirement applicable to the Contract.

## 6.2 Requirement

The Contractor must provide the items detailed under "Requirement" at Annex "A".

## 6.3 Standard Clauses and Conditions

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

### 6.3.1 General Conditions

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

## 6.4 Term of Contract

### 6.4.1 Period of the Contract

The period of the Contract is from date of Contract Award to May 30, 2018.

### 6.4.2 Delivery Date

All the deliverables must be received on or before March 31, 2018.

### 6.4.3 Delivery Points

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

## 6.5 Authorities

### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Aaron Abela  
Title: Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Directorate: Ontario Region  
Address: 33 City Centre Drive Suite 480C  
Mississauga, Ontario L5B 2N5  
Telephone: (905) 615-2061  
Facsimile: (905) 615-2060  
E-mail address: [Aaron.Abela@pwgsc.gc.ca](mailto:Aaron.Abela@pwgsc.gc.ca)

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

### 6.5.2 Project Authority (TBA at time of contract award)

The Project Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_

Solicitation No. - N° de l'invitation  
W0114-185539/A  
Client Ref. No. - N° de réf. du client  
W0114-185539

Amd. No. - N° de la modif.  
File No. - N° du dossier  
TOR-7-40083

Buyer ID - Id de l'acheteur  
tor015  
CCC No./N° CCC - FMS No./N° VME

Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

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

### 6.5.3 Contractor's Representative (*to be completed by Bidder*)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
Facsimile: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_  
E-mail address: \_\_\_\_\_

## 6.6 Payment

### 6.6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price(s), *as specified in Annex B – Basis of Payment for a cost of \$ \_\_\_\_\_ amount to be inserted at contract award*). Customs duties are included and Applicable Taxes are extra.

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

### 6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2011-05-16) Limitation of Price

### 6.6.3 Method of Payment - Single Payment

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

### 6.6.5 Electronic Payment of Invoices – Contract

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

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

## 6.7 Invoicing Instructions

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

## 6.8 Certifications and Additional Information

### 6.8.1 Compliance

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

## 6.9 Applicable Laws

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

## 6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2016-04-04), General Conditions – Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_

## 6.11 Insurance Requirements

SACC Manual clause [G1005C](#) (2016-01-28) Insurance, No Specific Requirement

SACC Manual clause B7500C (2006-06-16) Excess Goods

## ANNEX "A"

### REQUIREMENT

#### 1.0 SCOPE

#### 1.1 Objective

Royal Military College of Canada (RMCC), Department of Physics and Space Science has a requirement for the supply and delivery of two (2) Scientific CMOS Astronomical Detectors to replace its aging Astronomical Detectors. The units are used to support astronomy and astrophysics at the undergraduate level as well as its space surveillance research activities at the graduate level.

#### 1.2 Background

1.2.1 The RMCC Department of Physics and Space Science currently operates three (3) telescopes in its observatory to support its undergraduate and graduate Physics programs. The three telescopes in the RMCC Observatory are:

- a. Two (2) x 14-inch C14 Celestron OTA installed on a Paramount ME II robotic telescope mount.
- b. One (1) x 16-inch Meade OTA installed on a Paramount ME robotic telescope mounts.

1.2.2 Since 2010, these telescopes have been extensively used to support space surveillance research activities focussed on the optical characterization of active satellites and space debris. The latter are generally dim objects that are spinning up to several rotations per minutes. The characterization of space debris objects require astronomical detectors that are highly sensitive in the optical portion of the electromagnetic spectrum and that can collect photometric data at rates on the order of 10 to 100 images per second.

1.2.3 The three (3) astronomical detectors currently in use at the RMCC Observatory are over ten (10) years old and must be replaced due to the lack of sensitivity and higher frame rates that are required to support ongoing research initiatives. RMCC is now recognized as a center of expertise in the characterization of active satellite and space debris. If this institution is to remain at the forefront of developments in this field, it must upgrade its astronomical detectors.

## **2.0 GENERAL REQUIREMENT**

Royal Military College of Canada (RMCC), Department of Physics and Space Science requires two (2) scientific complementary metal-oxide-semiconductor (sCMOS) Astronomical Detectors that will satisfy the mandatory specifications highlighted below (Section 2.3).

### **2.1 Documentation**

The Contractor must provide at the time of delivery, in English, user and operations manual(s) containing the latest technical information related to the Astronomical Detectors.

### **2.2 Delivery against the Contract**

All deliverables must be in accordance with best commercial standards. The Contractor must deliver the Astronomical Detectors in satisfaction of the contract requirements to:

Royal Military College of Canada  
Department of Physics & Space Science  
15 Crerar Cres.  
Kingston, ON, K7K 784

### **2.3 Mandatory Specifications**

Each CMOS Astronomical Detector must meet the following specifications:

- 1) Must have a minimum sensor size of 13.3 mm by 13.3 mm.
- 2) Must have a minimum pixel readout rate of 215 MHz.
- 3) Must have a minimum quantum efficiency of the detector of 80%
- 4) Must have a digital resolution of 16 bits.
- 5) Must have a minimum dynamic range of sensor of 30,000:1.
- 6) Must have at least the following hardware pixel binning modes: 2x2, 3x3 and 4x4.
- 7) Must have a USB 3.0 interface
- 8) Must be provided with an Image Capture and Analysis Software.

Solicitation No. - N° de l'invitation  
W0114-185539/A  
Client Ref. No. - N° de réf. du client  
W0114-185539

Amd. No. - N° de la modif.  
File No. - N° du dossier  
TOR-7-40083

Buyer ID - Id de l'acheteur  
tor015  
CCC No./N° CCC - FMS No./N° VME

**ANNEX "B"**

**BASIS OF PAYMENT**

All inclusive, firm unit prices in Canadian funds, delivery and transportation included, FOB destination, Canadian Customs duties and excise taxes included. GST/HST extra if applicable.

Item No.	Description	Qty.	Unit of Issue	Unit Price	Extended Price
1.0	For the supply and delivery of Scientific CMOS Astronomical Detectors, in accordance with the specifications detailed at Annex A – Requirement.  Manufacturer: _____  Model: _____	2	EA	\$	\$
				<b>Total: \$</b>	<b>(applicable taxes extra)</b>

Solicitation No. - N° de l'invitation  
W0114-185539/A  
Client Ref. No. - N° de réf. du client  
W0114-185539

Amd. No. - N° de la modif.  
File No. - N° du dossier  
TOR-7-40083

Buyer ID - Id de l'acheteur  
tor015  
CCC No./N° CCC - FMS No./N° VME

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## **ANNEX “C”**

### **ELECTRONIC PAYMENT INSTRUMENTS**

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

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

Solicitation No. - N° de l'invitation  
W0114-185539/A  
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File No. - N° du dossier  
TOR-7-40083

Buyer ID - Id de l'acheteur  
tor015  
CCC No./N° CCC - FMS No./N° VME

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## ANNEX "D"

### ADDITIONAL CERTIFICATIONS

#### Board of Directors

In accordance with Section 1, Integrity Provisions – Bidder, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name - \_\_\_\_\_

#### Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Bidders are required to have a Procurement Business Number (PBN) before Standing Offer award.

Procurement Business Number - \_\_\_\_\_

Suppliers may register for a PBN online at Supplier Registration Information. For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.