

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Réception des soumissions - TPSGC / Bid  
Receiving - PWGSC  
1550, Avenue d'Estimauville  
1550, D'Estimauville Avenue  
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**

|  |  |  |
|--|--|--|
| <b>Title - Sujet</b><br>SWIR   |  |  |
| <b>Solicitation No. - N° de l'invitation</b><br>W7701-135592/B   | <b>Date</b><br>2013-07-30              |  |
| <b>Client Reference No. - N° de référence du client</b><br>W7701-13-5592   |  |  |
| <b>GETS Reference No. - N° de référence de SEAG</b><br>PW-\$QCN-023-15536  |  |  |
| <b>File No. - N° de dossier</b><br>QCN-2-35503 (023)   | <b>CCC No./N° CCC - FMS No./N° VME</b> |  |
| <b>Solicitation Closes - L'invitation prend fin</b><br><b>at - à 02:00 PM</b><br><b>on - le 2013-08-22</b>   |  | <b>Time Zone</b><br><b>Fuseau horaire</b><br>Heure Avancée de l'Est<br>HAE |
| <b>F.O.B. - F.A.B.</b><br><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><br>Boudrias, Marie-M.  |  | <b>Buyer Id - Id de l'acheteur</b><br>qcn023                               |
| <b>Telephone No. - N° de téléphone</b><br>(418) 649-2806 ( )   |  | <b>FAX No. - N° de FAX</b><br>(418) 648-2209                               |
| <b>Destination - of Goods, Services, and Construction:</b><br><b>Destination - des biens, services et construction:</b><br>R & D POUR LA DÉFENSE CANADA VALCARTIER<br>BATIMENT 53<br>2459 BLVD PIE XI NORD<br>QUEBEC<br>Québec<br>G3J1X5<br>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**

TPSGC/PWGSC  
601-1550, Avenue d'Estimauville  
Québec  
Québec  
G1J 0C7

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

There is no security requirement associated with the requirement.

### **2. Requirement**

The requirement is detailed under Annex A - Requirement.

### **3. Debriefings**

After contract award, 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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

## PART 2 - BIDDER INSTRUCTIONS

### 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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### 1.1 SACC Manual Clauses

B1000T (2007-11-30), Condition of Material

#### 1.2 Equivalent Products

1. Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
  - a. designates the brand name, model and/or part number of the substitute product;
  - b. states that the substitute product is fully interchangeable with the item specified;
  - c. provides complete specifications and descriptive literature for each substitute product;
  - d. provides compliance statements that include technical specifics showing the substitute product meets all mandatory performance criteria that are specified in the bid solicitation; and
  - e. clearly identifies those areas in the specifications and descriptive literature that support the substitute product's compliance with any mandatory performance criteria.
2. Products offered as equivalent in form, fit, function and quality will not be considered if:
  - a. the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
  - b. the substitute product fails to meet or exceed the **mandatory technical requirements specified at Annex A - Requirement (see section 3.1)** in the bid solicitation for that item.
3. In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to demonstrate, at the sole cost of bidders, that the substitute product is equivalent to the item specified in the bid solicitation.

## 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.

Bids transmitted by facsimile to PWGSC will be accepted (418-648-2209).

Bids transmitted by e-mail to PWGSC will not be accepted.

### 2.1 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 five (5) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

## 3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

## 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.

## PART 3 - BID PREPARATION INSTRUCTIONS

### 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)

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 explain and demonstrate how they propose to meet the requirements of the request for submission.

#### Section II: Financial Bid

Bidders must submit their financial bid **in accordance with the Basis of Payment available at annex B**. The total amount of the applicable taxes must be shown separately.

##### 1.1 Exchange Rate Fluctuation

C3011T (2010-01-11), Exchange Rate Fluctuation

#### Section III: Certifications

Bidders must submit the certifications required under **Part 5**.

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## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 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.

#### 1.1 Technical Evaluation

##### 1.1.1 Mandatory Technical Criteria

**Bidders must provide with their bid the technical documentation of the proposed deliverables.** The technical documentation should demonstrate that the proposed deliverables meet the mandatory technical requirements described at Annex A - Requirement, section 3.1.

#### 1.2 Financial Evaluation

- (a) Bidders must submit firm prices, excluding the applicable taxes, Canadian customs duties and excise taxes included.
- (b) Bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date will be applied as a conversion factor to the bids submitted in foreign currency.
- (c) Bidders must provide prices DDP (Incoterm 2000) at 2459, boulevard Pie-XI North, Quebec city (Quebec), G3J 1X5. Bids will be assessed on a DDP (Incoterm 2000) basis.
- (d) The total evaluation price will be the **total price** indicated at Annex B - Basis of Payment.

### 2. Basis of Selection

SACC Manual Clause A0031T (2010-08-16), Basis of Selection - Mandatory Technical Criteria

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## PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and documentation 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 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

### 1. Mandatory Certifications Required Precedent to Contract Award

#### 1.1 Code of Conduct and Certifications - Related documentation

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

#### 1.2 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 [Human Resources and Skills Development Canada \(HRSDC\)](#) - Labour's 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](#)" list at the time of contract award.



## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Requirement

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

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

#### 3.1 General Conditions

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

##### **3.1.1 2030 27 (2008-05-12), Intellectual Property Infringement and Royalties, apply to and form part of the Contract.**

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:
  - a. 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
  - b. 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

- c. the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
  - d. 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:
- a. take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
  - b. 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
  - c. 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.

### 3.2 Supplemental General Conditions

4003 (2010-08-16), Licensed Software, apply to and form part of the Contract.

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#### 4. Term of Contract

The term of contract is from the date of the contract to one year after the acceptance of the deliverables.

##### 4.1 Delivery Date

All the deliverables must be received on or before March 31, 2014.

#### 5. Authorities

##### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Marie-Michèle Boudrias  
Public Works and Government Services Canada  
Address: 1550, avenue d'Estimauville  
Québec city (Quebec), G1J 0C7

Telephone: 418-649-2806  
Facsimile: 418-648-2209  
E-mail address: marie-michele.boudrias@tpsgc-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.

##### 5.2 Technical Authority (to be completed by Canada at the contract award)

The Technical Authority for the Contract is :

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

Telephone : \_\_\_\_\_  
Facsimile : \_\_\_\_\_  
Email : \_\_\_\_\_

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical 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.

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

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

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

Telephone : \_\_\_\_\_

Facsimile : \_\_\_\_\_

E-mail : \_\_\_\_\_

**6. Payment****6.1 Basis of Payment - Firm Price**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, **the Contractor will be paid a firm price, as specified in Annex B - Basis of Payment.** 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.

**6.2 Limitation of Price**

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

**6.3 Single Payment**

SACC *Manual* Clause H1000C (2008-05-12), Single Payment

**6.4 SACC Manual Clauses**

C2000C (2007-11-30), Taxes - Foreign-based Contractor (*if applicable*)

**6.5 Shipping Instructions - Delivery at Destination**

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

- (a) Delivered Duty Paid (DDP) at 2459, boulevard Pie-XI North, Quebec city (Quebec), G3J 1X5, Incoterms 2000 for shipments from a commercial contractor.

## 6.6 Liquidated Damages

1. If the Contractor fails to deliver the goods within the time specified in the Contract, the Contractor agrees to pay to Canada liquidated damages in the amount of **\$100.00 CAD** for each calendar day of delay. The total amount of the liquidated damages **must not exceed 20 percent of the contract price.**
2. Canada and the Contractor agree that the amount stated above is their best pre-estimate of the loss to Canada in the event of such a failure, and that it is not intended to be, nor is it to be interpreted as, a penalty.
3. Canada will have the right to hold back, drawback, deduct or set off from and against the amounts of any monies owing at any time by Canada to the Contractor, any liquidated damages owing and unpaid under this section.
4. Nothing in this section must be interpreted as limiting the rights and remedies which Canada may otherwise have under the Contract.

## 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.

## 8. Certifications

### 8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation 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.

## 9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_. *(Insert the name of the province or territory as specified by the Bidder in its bid, if applicable)*

## 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 4003 (2010-08-16), Licensed Software;
- (c) 2030 27 (2008-05-12) Intellectual Property Infringement and Royalties;
- (d) the general conditions 2010A (2013-04-25), General Conditions - Goods (Medium Complexity);
- (e) Annex A, Requirement;
- (f) Annex B, Basis of Payment;
- (g) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*).

## 11. Defence Contract

SACC *Manual* clause A9006C (2012-07-16) Defence Contract

## 12. SACC Manual Clauses

B1501C (2006-06-16), Electrical Equipment  
D0018C (2007-11-30), Delivery and Unloading  
G1005C (2008-05-12), Insurance

## 13. Licensed Software

With respect to the provisions of Supplemental General Conditions 4003:

|  |   |
|--|---|
| Licensed Software                                  | The Licensed Software, which is defined in 4003, includes all the products offered by the Contractor in its bid, and any other software code required for those products to function in accordance with the Software Documentation and the Specifications, including without limitation all of the following products:<br><br>_____ [ <i>this information will be completed at contract award using information in the Contractor's bid</i> ] |
| Type of License being Granted                      | _____ [ <i>this information will be completed at contract award using information in the Contractor's bid</i> ]   |
| Number of Licenses                                 | 1 license   |
| Language of Licensed Software                      | The Licensed Software must be delivered in English.   |
| Delivery Location                                  | 2459, boulevard Pie-Xi North<br>Quebec city, Quebec, G3J 1X5  |
| Media on which Licensed Software must be Delivered | CD-ROM or DVD   |
| Source Code Escrow Required                        | No  |

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## ANNEX A - REQUIREMENT

Provide and deliver to Defence Research and Development Canada - Valcartier the following items:

- (a) The contractor must provide and deliver one (1) Unlimited/Goodrich GA1280J-15 SWIR sensor camera (or equivalent), with the technical specifications described in Section 3.1.
- (b) The contractor must provide and deliver all the devices (optics, lens, interface card, and adapter) as described in Section 3.1.
- (c) The Contractor must ensure that the camera is delivered with all components correctly adjusted, calibrated, and serviced such that the equipment is ready for operational use.
- (d) The contractor must deliver one (1) Operation & Technical Manual with the delivery in hard copy and/or in Adobe PDF file format. The manual must contain all the instruction on how to perform the operation, configuration, integration, and the maintenance of the SWIR camera.
- (e) The contractor must provide and deliver the softwares required to control the camera and the electronic devices on a Compact Disk (CD) or Digital Video Disk (DVD).

### 1. ACRONYMS

A/D: Analog to digital  
CD: Compact Disk  
DR: Dynamic Range  
DRDC: Defence Research and Development Canada  
DVD : Digital Versatile Disc  
MTBF: Mean Time Between  
NEI: Noise Equivalent Irradiance  
PDF: Portable Document Format  
RMS: Root Mean Square  
ROIC: Readout Integrated Circuit  
SWIR: Short Wave InfraRed

### 2. APPLICABLE DOCUMENTS

Not applicable.

### 3. MANDATORY TECHNICAL REQUIREMENTS

The equipment must meet the following specifications:

#### 3.1 SWIR Camera Specifications

| <b>(a) Detector Specifications</b>                             |   |
|--|---|
| (i) Spectral response range:                                   | 900 to 1700 nm  |
| (ii) Spatial Resolution:                                       | 1280 x 1024 pixels (minimum)  |
| (iii) Pixel pitch:   | 15 µm (maximum)   |
| (iv) NEI:  | Less than 1.6E+09 photons/cm <sup>2</sup> * sec at approx. 1.5 µm wavelength, exposure time of 32 msec. |
| (v) Noise (RMS):   | 90 electrons (maximum) at 30Hz and at approx. 1.5 µm wavelength, exposure time of 32 msec.              |
| (vi) A/D resolution:   | 12 bit (minimum) at 30 frames per second at full frame  |
| <b>(b) Lens and optics</b>                                     |   |
| (i) Lens and optics:   | 50mm, F/1.4, C-mount compatible (with adapter)  |
| <b>(c) Interface</b>   |   |
| (i) Lens mount:  | C-mount compatible  |
| (ii) Digital interface:  | Camera Link digital interface with cable  |
| (iii) Converter:   | Camera Link-to-Ethernet converter (GigE compatible)   |
| <b>(d) Control software</b>                                    |   |
| (i) Adjustment and control:                                    | Auto gain control   |
| <b>(e) Environmental specifications</b>                        |   |
| (i) Mean Time Between Failure:                                 | ≥ 10,000 hours, MIL-HDBK-217F N2  |
| (ii) Operating temperature                                     | -20° to +40° Celcius  |
| (iii) Vibration, shock, transportation, temperature, humidity: | MIL-STD-810G compliant  |



**ANNEX B - BASIS OF PAYMENT**

(to be completed by the bidder)

| Item  | Description   | Qty | Firm, all inclusive price<br>(applicable taxes are extra) | Currency<br>(ex.: CAD, USD, EURO, etc.) |
|---|---|-----|---|---|
| 1   | Firm, all inclusive, price for providing the deliverables described at Annex A - Requirement. | 1   | _____   | _____                                   |
| <b>Total Price (applicable taxes are extra) :</b> |   |     | _____   | _____                                   |

\*N.B.: The section bellow will not be included in the contract. The information provided by the bidder will be included in the table at section 13, Part 6.

**The bidder should also provide the following information :**

(a) The Licensed Software, which is defined in 4003, includes all the products offered by the Contractor in its bid, and any other software code required for those products to function in accordance with the Software Documentation and the Specifications, including without limitation all of the following products:

\_\_\_\_\_

(b) Type of License being Granted

- ( ) Device license, or  
( ) User license