



**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
FAX pour soumissions: (418) 648-2209

**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
601-1550, Avenue d'Estimauville
Québec
Québec
G1J 0C7

Title - Sujet HIGH SPEED AND HIGH RESOLUTION INFR	
Solicitation No. - N° de l'invitation W7701-166118/A	Date 2016-07-14
Client Reference No. - N° de référence du client W7701-166118	
GETS Reference No. - N° de référence de SEAG PW-\$QCN-016-16813	
File No. - N° de dossier QCN-5-38208 (016)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-08-24	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
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: Carrier, Bertrand	Buyer Id - Id de l'acheteur qcn016
Telephone No. - N° de téléphone (418) 649-2774 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: RDDC-R et D Défense Canada-Valcartier DRDC-Defence R&D Canada Valcartier BATISSE 53 2459 ROUTE DE LA BRAVOURE QUEBEC Québec G3J 1X5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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QCN-5-38208

Id de l'acheteur - Buyer ID
qcn016
N° CCC / CCC No./ N° VME - FMS

PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed at article 7.2 of the Resulting Contract Clauses section.

1.2 Debriefings

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

1.3 Trade Agreements

The requirement is not subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

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

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

Delete: 60 days
Insert: 90 days

2.1.1 SACC Manual Clauses

The following terms and conditions are incorporated herein:

SACC Reference	Section	Date
B1000T	Condition of Material - Bid	2014-06-26
C9000T	Price	2010-08-16

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.

Your proposal can be transmitted by fax to # 418-648-2209 or by mail to the following address:

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) 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 the Province of 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

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Id de l'acheteur - Buyer ID
qcn016
N° CCC / CCC No./ N° VME - FMS

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)

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

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

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 Criteria

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

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

Each mandatory technical criteria must be addressed separately.

#	Mandatory Technical Criteria	COMPLIANT
1	Bidders must include with their proposal the data sheets and / or technical documentation describing the products offered.	
2	<p>Bidders must propose products which must not be a prototype or test unit but a standard proven product of the manufacturer and contain reliable state-of-the-art technology.</p> <p>In order to demonstrate that this is a standard proven product of the manufacturer and contain reliable state-of-the-art technology, bidders must provide with their bid, a list of two (2) valid projects for <u>each camera</u>.</p> <p>For a project to be considered valid, it is necessary that the product specified in this project:</p> <ul style="list-style-type: none">a) be a similar product as requested in this document - the product will be considered similar if it meets all the preselected technical specifications described in Section 4 of Annex A ;andb) was sold in the previous 24 months of the Solicitation closing date. <p>Bidders should submit with their bid, the following information for each project:</p> <ul style="list-style-type: none">(i) the brand name and model of the product sold,(ii) the date of sale,(iii) technical details of the product sold [refer to paragraph (a) above], and(iv) the user contact information: which should include organization name, address, contact, telephone, fax, and the e-mail address. <p>The provided information may be verified with the user to check and certify the accuracy of the information.</p> <p>If the information certification does not match the above requirements, the bid will be declared non responsive.</p>	

4.1.2 Financial Evaluation

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

Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

4.3 Basis of Selection

A bid must comply with the requirements of the bid solicitation and all the mandatory technical criteria to be declared responsive. The responsive bid with the lowest Total Bid Price (TBP) (Annex B) 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) (<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) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

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 D) 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 D) 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. Alterations to the statements in the form may result in the bid being declared non-responsive.

(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.

PARTIE 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 6 - Resulting Contract Clauses;
 - (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work sites must meet the security requirements as indicated in Part 6 - 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 \(ISP\)](http://ssi-iss.tpsgc-pwgsc.gc.ca/index-eng.html) 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 – W7701-166118/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.

7.1 Security Requirements for Canadian suppliers

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

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

7.2 Requirement

7.2.1 The Contractor must supply, deliver and install two (2) Infrared cameras, one High Resolution and the other one High-Speed, including the accessories, the lens calibration and the training, all in accordance with the Requirement described at Annex "A".

7.2.2 Condition of Material – Contract

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

7.3 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.

7.3.1 General Conditions

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

7.3.2 Supplemental General Conditions

4001 (2015-04-01), Hardware purchase, lease and maintenance, apply to and form part of the Contract.

7.4 Term of Contract

7.4.1 Period of the Contract

The contract period is from the date of contract award until the end of the warranty period inclusively.

7.4.2 Delivery Date

All the deliverables must be received within sixteen (16) weeks from contract date.

7.4.3 Training Period

On-site training must be provided within two (2) weeks following delivery.

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Bertrand Carrier
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address 1550 D'Estimauville Ave.,
Quebec, Qc.
G1J 0C7
Telephone: 418-649-2774
Facsimile: 418-648-2209
E-mail address: Bertrand.Carrier@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 Project Authority

The Project Authority for the Contract is:

Name: _____
Title: _____
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.

7.5.3 Contractor's Representative

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone : ____ ____ ____
Facsimile: ____ ____ ____
E-mail address: _____

7.6 Payment

7.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex B for a cost of \$ _____ *insert the amount 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.

7.6.2 Terms of payment

SACC Manual Clause H1001C, (2008-05-12) Multiple Payments

7.7 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.

7.8 Certifications

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 during the entire period of the Contract.

7.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the Province of 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 General Conditions 2010A (2016-04-04) Goods (Medium Complexity);
- (c) the supplemental general conditions 4001 (2015-04-01) Hardware Purchase, Lease and maintenance;
- (d) Annex A, Requirement;
- (e) Annex B, Basis of payment;
- (f) Annex C, Security Requirements Check List ;
- (g) Annex D, OEM Certification Form;
- (h) the Contractor's bid dated _____ (*insert date of bid*)

7.11 **SACC Manual Clauses**

G1005C	2016-01-28	Insurance
A9006C	2012-07-16	Defence Contract
B7500C	2006-06-16	Excess Goods
A9062C	2011-05-16	Canadian Forces Site Regulations
D9002C	2007-11-30	Incomplete Assemblies
B1501C	2006-06-16	Electric Equipment

7.12 **Inspection and Acceptance**

The Project Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

7.13 **Shipping Instructions - Delivery at Destination**

Goods must be consigned to the destination specified delivered DDP Delivered Duty Paid; Defence Research and Development Canada – Valcartier Research Centre, Munitions Experimental Test Centre, Building 243, 2459 de la Bravoure Road, Quebec, Qc, G3J 1X5, Canada, as per Incoterms 2000 for shipments from commercial contractor.

ANNEX A - REQUIREMENT

1. TITLE

HIGH-SPEED AND HIGH DEFINITION INFRARED CAMERAS (2)

2. BACKGROUND

The METC is an organization which is mandated to acquire data during tests and experiments on ultra-fast phenomena as projectiles in flight and explosions. Temperature measurements are required in several experiments. Thermocouples, while useful in some tests, cannot be used at extreme temperatures nor in experiments with vibrations as in firing projectiles or explosions. These vibrations and extreme temperatures (up to 2000 ° C) are outside of the range of the best thermocouples currently on the market. In addition, the reliability of measurement of a thermocouple depends directly on the ability to get and keep a good physical contact between it and the part that we want to measure, which is more difficult in experiments comprising vibrations. The best way to overcome this is thermography which allows taking temperature measurements up to 2000 ° C and this without the need of any physical contact with the weapon or the part to be analyzed.

To make accurate and reliable measurements, the latest models of high-speed infrared cameras can take images at a frequency of 1000 Hz, and this at resolutions of over 20 000 pixels. There are also high definition infrared cameras of over 1.3 megapixels which allow high accuracy measurement on large objects. These cameras also allow synchronization between them to be able to take continuous measurements without data loss and over a wide temperature range.

3. ACRONYMS

DRDC	Defence Research Development Canada
°C	Degree Celsius
mm	Millimetre
µm	Micrometre
µs	Microsecond
GigE	Gigabit Ethernet
USB	Universal Serial Bus
Hz	Hertz
TTL	Transistor–Transistor Logic
MWIR	Mid wave infrared
LWIR	Long wave infrared
METC	Munitions Experimental Test Centre
NUC	Non-Uniformity Correction

4. APPLICABLE DOCUMENTS & REFERENCES

None

5. REQUIREMENTS

5.1 High-speed infrared camera

Required quantity: 1

The Contractor must provide the requirement with the following specifications:

Specifications
5.1.1 Camera
5.1.1.1 Infrared camera « Mid Wave » (MWIR)
5.1.1.2 Must cover a spectrum from 2µm to 5µm
5.1.1.3 The sensor must have a minimum of 325 000 pixels
5.1.1.4 Must minimally be able to reach a frequency of 1000 Hz at a resolution of

Specifications
20 000 pixels and also a minimum frequency of 350 Hz at a resolution of 325 000 pixels
5.1.1.5 The sensor must have a pitch of less than 20 µm
5.1.1.6 Must have a cooling system
5.1.1.7 Must have a 10GigE and USB interface to communicate with a computer
5.1.1.8 Must measure temperatures from -40 ° C to 2000 ° C
5.1.1.9 Must have a TTL trigger
5.1.1.10 Must have an input and an output in order to synchronize the cameras together
5.1.1.11 Must have a motorized focus controlled by the camera software
5.1.1.12 Must have several choices of integration time controlled by the camera software
5.1.1.13 Must be able to reach an integration time between 1 µs and 16 000 µs
5.1.1.14 Must have an aperture wheel embedded within the camera and controlled by the software
5.1.1.15 Must have a filter wheel embedded within the camera and controlled by the software
5.1.1.16 The aperture wheel and the filter wheel must be two separate wheels allowing aperture and filter combinations. They must also be thermally insulated from the rest of the camera
5.1.1.17 Filters required in section 5.3 Accessories must already be installed inside the camera and should be calibrated
5.1.1.18 Must be able to measure temperatures from 0 ° C to 600 ° C without interruption and without change of temperature range
5.1.1.19 Must be calibrated with a 50 mm lens
5.1.1.20 Must be calibrated with a 100 mm lens
5.1.1.21 Must be provided with a laptop with 10 GigE and USB connectivity
5.1.1.22 Must be provided with a one-day training
5.1.2 Software
5.1.2.1 Must allow us to add an emissivity curve, this must allow us to correct the emissivity of materials that we test depending on the temperature, and this in real time
5.1.2.2 Must allow us to individually change the emissivity of each measurement point
5.1.2.3 Must allow us to save and play the images captured to do analysis
5.1.2.4 Must take into account humidity, ambient temperature, reflected temperature, and transmissivity of an external filter
5.1.2.5 Must allow us to measure several points, lines and surfaces in the same image sequence
5.1.2.6 Must be able to plot a graph of temperature versus time
5.1.2.7 Must be able to export the measured data in an Excel file
5.1.2.8 Must allow us to mirror and rotate the image
5.1.2.9 Must allow us to stop the automatic NUC function
5.1.2.10 Must provide the internal temperature of the camera
5.1.2.11 Must allow us to change resolution and recording speed
5.1.2.12 Must allow us to export the images captured to .avi file
5.1.2.13 Must allow us to start and stop the image capture manually

5.2 High definition infrared camera

Required quantity: 1

The Contractor must provide the requirement with the following specifications:

Specifications
5.2.1 Camera

Specifications
5.2.1.1 Infrared camera « Mid Wave » (MWIR)
5.2.1.2 Must cover a spectrum from 2µm to 5µm
5.2.1.3 The sensor must have a minimum of 1.3 megapixels
5.2.1.4 Must minimally be able to reach a frequency of 100 Hz at a resolution of 1.3 megapixels
5.2.1.5 The sensor must have a pitch of less than 20 µm
5.2.1.6 Must have a cooling system
5.2.1.7 Must have a 10GigE and USB interface to communicate with a computer
5.2.1.8 Must measure temperatures from -40 ° C to 2000 ° C
5.2.1.9 Must have a TTL trigger
5.2.1.10 Must have an input and an output in order to synchronize the cameras together
5.2.1.11 Must have a motorized focus controlled by the camera software
5.2.1.12 Must have several choices of integration time controlled by the camera software
5.2.1.13 Must be able to reach an integration time between 1 µs and 16 000 µs
5.2.1.14 Must have an aperture wheel embedded within the camera and controlled by the software
5.2.1.15 Must have a filter wheel embedded within the camera and controlled by the software
5.2.1.16 The aperture wheel and the filter wheel must be two separate wheels allowing aperture and filter combinations. They must also be thermally insulated from the rest of the camera
5.2.1.17 Filters required in section 5.3 Accessories must already be installed inside the camera and should be calibrated
5.2.1.18 Must be able to measure temperatures from 0 ° C to 600 ° C without interruption and without change of temperature range
5.2.1.19 Must be calibrated with a 50 mm lens
5.2.1.20 Must be calibrated with a 100 mm lens
5.2.1.21 Must be provided with a laptop with 10 GigE and USB connectivity
5.2.1.22 Must be provided with a one-day training
5.2.2 Software
5.2.2.1 Must allow us to add an emissivity curve, this must allow us to correct the emissivity of materials that we test depending on the temperature, and this in real time
5.2.2.2 Must allow us to individually change the emissivity of each measurement point
5.2.2.3 Must allow us to save and play the images captured to do analysis
5.2.2.4 Must take into account humidity, ambient temperature, reflected temperature, and transmissivity of an external filter
5.2.2.5 Must allow us to measure several points, lines and surfaces in the same image sequence
5.2.2.6 Must be able to plot a graph of temperature versus time
5.2.2.7 Must be able to export the measured data in an Excel file
5.2.2.8 Must allow us to mirror and rotate the image
5.2.2.9 Must allow us to stop the automatic NUC function
5.2.2.10 Must provide the internal temperature of the camera
5.2.2.11 Must allow us to change resolution and recording speed
5.2.2.12 Must allow us to export the images captured to .avi file
5.2.2.13 Must allow us to start and stop the image capture manually

5.3 Accessories

The Contractor must provide the following accessories for requirements 5.1 and 5.2:

Description	Required quantity
5.3.1 4,24µm CO2 filter (1 for each camera)	2
5.3.2 3,9µm through-flame filter (1 for each camera)	2
5.3.3 High temperature filter (1 for each camera)	2
5.3.4 50 mm lens (1 for each camera)	2
5.3.5 100 mm lens (1 for each camera)	2

5.4 Special Instructions

Description
5.4.1 Both cameras must be of the same company and must use the same software.
5.4.2 The product as proposed must already be in service and meet all our needs. It must not be any changes to be made to meet our requirements.
5.4.3 For each camera, the supplier must provide 2 projects, in accordance with the instructions of Part 4, Section 4.1.1; «Technical evaluation» of the Solicitation.
5.4.4 A full-day training must be provided in our office in order to cover all the features of both cameras.

6. Deliverables

All Items of 5.1, 5.2, 5.3 and 5. 4

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Id de l'acheteur - Buyer ID
qcn016
N° CCC / CCC No./ N° VME - FMS

ANNEX B – BASIS OF PAYMENT

Item	Description	Qty.	Unit price	Calculated Price
1	HIGH-SPEED INFRARED CAMERA Brand Name: _____ Model #: _____ (as described in Annex A) (including accessories, lens calibration and on-site training)	1	\$	\$
2	HIGH RESOLUTION INFRARED CAMERA Brand Name: _____ Model #: _____ (as described in Annex A) (including accessories, lens calibration and on-site training)	1	\$	\$
3	DDP (Courcelette, Quebec, Canada), Including customs duties, handling and delivery.	1	\$	\$
TOTAL BID PRICE (TBD) (\$CAD) =				\$

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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 DND		2. Branch or Directorate / Direction générale ou Direction RDDC VALCARTIER
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 CAMERAS INFRAROUGES HAUTE VITESSE ET HAUTE RÉOLUTION		
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 <input type="checkbox"/> Yes Non 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 <input type="checkbox"/> Yes Non 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 <input type="checkbox"/> Yes Non 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 <input checked="" type="checkbox"/> Yes Non 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 <input type="checkbox"/> Yes Non 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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Canada



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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?

Le fournisseur aura-t-il accès à des renseignements ou à des biens COMSEC désignés PROTÉGÉS et/ou CLASSIFIÉS?

☒ No ☐ Yes
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?

Le fournisseur aura-t-il accès à des renseignements ou à des biens INFOSEC de nature extrêmement délicate?

☒ No ☐ Yes
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

☒ RELIABILITY STATUS
COTE DE FIABILITÉ

☐ TOP SECRET - SIGINT
TRÈS SECRET - SIGINT

☐ SITE ACCESS
ACCÈS AUX EMPLACEMENTS

☐ CONFIDENTIAL
CONFIDENTIEL

☐ NATO CONFIDENTIAL
NATO CONFIDENTIEL

☐ SECRET
SECRET

☐ NATO SECRET
NATO SECRET

☐ TOP SECRET
TRÈS SECRET

☐ COSMIC TOP SECRET
COSMIC TRÈS SECRET

Special comments:

Commentaires spéciaux : On-site camera short course and instruments set up (2 days)

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?

Du personnel sans autorisation sécuritaire peut-il se voir confier des parties du travail?

☒ No ☐ Yes
Non Oui

If Yes, will unscreened personnel be escorted?

Dans l'affirmative, le personnel en question sera-t-il escorté?

☐ No ☐ Yes
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?

Le fournisseur sera-t-il tenu de recevoir et d'entreposer sur place des renseignements ou des biens PROTÉGÉS et/ou CLASSIFIÉS?

☒ No ☐ Yes
Non Oui

11. b) Will the supplier be required to safeguard COMSEC information or assets?

Le fournisseur sera-t-il tenu de protéger des renseignements ou des biens COMSEC?

☒ No ☐ Yes
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?

Les installations du fournisseur serviront-elles à la production (fabrication et/ou réparation et/ou modification) de matériel PROTÉGÉ et/ou CLASSIFIÉ?

☒ No ☐ Yes
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?

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?

☒ No ☐ Yes
Non Oui

11. e) Will there be an electronic link between the supplier's IT systems and the government department or agency?

Disposera-t-on d'un lien électronique entre le système informatique du fournisseur et celui du ministère ou de l'agence gouvernementale?

☒ No ☐ Yes
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 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
Non

☐ Yes
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
Non

☐ Yes
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 indiquez qu'il y a des pièces jointes (p. ex. SECRET avec des pièces jointes).

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Id de l'acheteur - Buyer ID
qcn016
N° CCC / CCC No./ N° VME - FMS

ANNEX D – OEM Certification Form

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	_____