

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

Title - Sujet Amélioration Préd.		
Solicitation No. - N° de l'invitation W7701-145784/A	Date 2014-01-03	
Client Reference No. - N° de référence du client W7701-14-5784		
GETS Reference No. - N° de référence de SEAG PW-\$QCN-015-15777		
File No. - N° de dossier QCN-3-36195 (015)	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-01-21		Time Zone Fuseau horaire Heure Normale du l'Est HNE
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Legendre, Sylvie		Buyer Id - Id de l'acheteur qcn015
Telephone No. - N° de téléphone (418) 649-2860 ()		FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: R & D POUR LA DÉFENSE CANADA - VALCARTIER BATIMENT 53 2459 BOUL. PIE XI NORD QUÉBEC Québec G3J1X5 Canada		

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

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

Issuing Office - Bureau de distribution
TPSGC/PWGSC
601-1550, Avenue d'Estimauville
Québec
Québec
G1J 0C7

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Solicitation No. - N° de l'invitation

W7701-145784/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

qcn015

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

W7701-14-5784

QCN-3-36195

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PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation is divided into six parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work, the Basis of Payment and any other annexes.

2. Summary

(a) **Title:** Improvement of the Airborne Optronic Sensor Performance Predictor

(b) **Objective:**

The objective of the contract is to improve the airborne EO/IR sensor performance predictor, primarily with regard to characterizing and modelling the sensors and calculating transmittance and radiance.

(c) **Tasks:**

This task authorisation contract include the following firm tasks:

- Task A: Characterizing and testing sensors
- Task B: Modelling the sensors
- Task C: Improving radiance and transmittance calculations
- Task D: Calculating the DRI and updating the Predictor
- Task E: Assist the Scientific Authority with national and international relations

This task authorisation contract include the following "as-requested" tasks:

- Task A: Characterizing new sensors (following the example of the work requested in Task 3A)
- Task B : Calculating DRI: for refining the model developed in Task B

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- Task C: Reviewing the model for calculating radiative transfer for varying conditions of distance , or on integrating it into the EOSPEC environment.
 - Task D : Improving the physical and computer models of the EOSPEC modules in relation to the modelling of atmospheric profiles, calculations of refractive effects, calculations of atmospheric radiances and luminances with or without SMARTi, or the calculation of background radiance.
 - Task E : Improving or updating to the Predictor; the work may involve the user interface (HMI), modelling of sensors, characterization and modelling of targets and backgrounds, and factoring in EC environmental data.
 - Task F : Taking measurements for experimental validation of EOSPEC and the Predictor.
 - Task G : Performing validation analysis using experimental data.
 - Task H : Assisting the Scientific Authority in his or her national and international relations and relations with the client.

For each of the above task many sub-tasks are associated.

(d) Work location:

The work of this contract must be performed at DRDC Valcartier (2459 Bravoure Road, Québec, QC, Canada, G3J 1X5).

(e) Client department :

The services will be rendered to Defence Research and Development Canada (DRDC-Valcartier).

(f) Period of the contract :

The period of the contract is from the date of the contract to March 31, 2017 inclusive.

(g) Estimated funding available

The maximum funding available for the contract resulting from the bid solicitation is **\$500,000.00 CAD** (applicable taxes extra). Bids valued in excess of this amount will be considered non-responsive. This disclosure does not commit Canada to pay the maximum funding available.

(h) Intellectual property rights

Any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada.

(i) Security Requirement

There is a security requirement associated with this requirement. For additional information, consult Part 6 - Security, Financial and Other Requirements, and Part 7 - Resulting Contract Clauses. Bidders should consult the "[Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders](http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31)" (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents Web site.

(j) Other information :

- The requirement is subject to the provisions of the Agreement on Internal Trade (AIT).
- The requirement is limited to Canadian services.

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 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.

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

Delete: sixty (60) days

Insert: one hundred and twenty (120) days

1.1 SACC Manual Clauses

A7035T (2007-05-25), List of Proposed Subcontractors

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.

Due to the nature of the bid solicitation, bids transmitted by facsimile or email to PWGSC will not be accepted.

3. Former Public Servant

Contracts awarded to former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny, and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, offerors must provide the information required below before the issuance of a standing offer.

Definitions

For the purposes of this clause,

"former public servant" is any former member of a department as defined in the Financial Administration Act R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- a. an individual;
 - b. an individual who has incorporated;
 - c. a partnership made of former public servants; or
 - d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.
- "lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means a pension or annual allowance paid under the Public Service Superannuation Act (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the Supplementary Retirement Benefits Act, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the Canadian Forces Superannuation Act, R.S., 1985, c. C-17, the Defence Services Pension Continuation Act, 1970, c. D-3, the Royal Canadian Mounted Police Pension Continuation Act, 1970, c. R-10, and the Royal Canadian Mounted Police Superannuation Act, R.S., 1985, c. R-11, the Members of Parliament Retiring Allowances Act, R.S. 1985, c. M-5, and that portion of pension payable to the Canada Pension Plan Act, R.S., 1985, c. C-8.

Former Public Servant in Receipt of a Pension

As per the above definitions, is the Offeror a FPS in receipt of a pension?

YES () NO ()

If so, the Offeror must provide the following information, for all FPS in receipt of a pension, as applicable:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

By providing this information, Offerors agree that the successful Offeror's status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure reports in accordance with Contracting Policy Notice: 2012-2 and the Guidelines on the Proactive Disclosure of Contracts.

Work Force Adjustment Directive

Is the Offeror a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive?

YES () NO ()

If so, the Offeror must provide the following information:

a.name of former public servant;

b.conditions of the lump sum payment incentive;

c.date of termination of employment;

d.amount of lump sum payment;

e.rate of pay on which lump sum payment is based;

f.period of lump sum payment including start date, end date and number of weeks;

g.number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including Applicable Taxes.

4. 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.

5. Applicable Laws

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

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.

6. Basis for Canada's Ownership of Intellectual Property

Defense Research and Development Canada - Valcartier has determined that any intellectual property rights arising from the performance of the Work under the resulting contract will belong to Canada, on the following grounds:

The Treasury Board, granted Defence Research and Development Canada exemption from the Treasury Board Policy on "Title to Intellectual Property Arising Under Crown Procurement Contracts"

7. Maximum Funding

The maximum funding available for the contract resulting from the bid solicitation is **\$500,000.00 CAD** (applicable taxes extra). Bids valued in excess of this amount will be considered non-responsive. This disclosure does not commit Canada to pay the maximum funding available.

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 (4 hard copies and 4 soft copies on CD or DVD)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

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

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

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

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

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

Section II: Financial Bid

1.1 Bidders must submit their financial bid in accordance with the following :

- (a) A Total Cost to a Limitation of Expenditure, which must not exceed the maximum funding specified in Part 2. The total amount of applicable taxes is to be shown separately, if applicable. The information should be provided in accordance with the Financial Bid Presentation Sheet at Attachment 1.
- (b) Prices must be in Canadian funds, Canadian customs duties and excise taxes included, and applicable taxes excluded.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

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

Refer to **Attachment 2, Mandatory and Point Rated Technical Criteria.**

1.1.2 Point Rated Technical Criteria

Refer to **Attachment 2, Mandatory and Point Rated Technical Criteria.**

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

The Bidder must submit a Basis of Payment to a Limitation of Expenditure that does not exceed the maximum funding specified at Part 2, FOB Destination (for goods), all applicable customs duty and excise taxes included, but applicable taxes extra.

1.2.2 Evaluation of Price

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

The price of the bid will be the estimated total cost to a Limitation of Expenditure (Section A + Section B) as detailed in **Attachment 1, Pricing Sheet.**

2. Basis of Selection

2.1 Basis of Selection - Highest Rated Within Budget

To be declared responsive, a bid must:

- (a) comply with all the requirements of the bid solicitation;
- (b) meet all mandatory technical evaluation criteria;
- (c) obtain the required minimum points for each criterion with a pass mark; and

- (d) obtain the required minimum points overall for the technical evaluation criteria which are subject to point rating.

Bids not meeting (a) or (b) or (c) or (d) will be declared non responsive. The responsive bid with the highest number of points will be recommended for award of a contract, provided that the total evaluated price does not exceed the budget available for this requirement. In the event that the highest number of points is obtained by more than one responsive bid, the responsive bid with the lowest evaluated price will be recommended for award of a contract.

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) 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.

2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

2.1 Canadian Content Certification

This procurement is limited to Canadian goods and Canadian services.

The Bidder certifies that:

- () a minimum of 80 percent of the total bid price consist of Canadian goods and Canadian services as defined in paragraph 2 of clause A3050T.

For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult Annex 3.6.(9), Example 2, of the Supply Manual. (<https://buyandsell.gc.ca/policy-and-guidelines/supply-manual/annex/3/6>)

2.1.1. SACC Manual clause A3050T (2010-01-11) Canadian Content Definition.

2.2 Status and Availability of Resources

The Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, every individual proposed in its bid will be available to perform the Work as required by Canada's representatives and at the time specified in the bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution and provide the name, qualifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability. Failure to comply with the request may result in the bid being declared non-responsive.

2.3 Education and Experience

The Bidder certifies that all the information provided in the résumés and supporting material submitted with its bid, particularly the information pertaining to education, achievements, experience and work history, has been verified by the Bidder to be true and accurate. Furthermore, the Bidder warrants that every individual proposed by the Bidder for the requirement is capable of performing the Work described in the resulting contract.

2.4 Language Capability

The Bidder certifies that it has the language capability required to perform the Work, as stipulated in the Statement of Work.

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS**1. Security Requirement**

1. Before award of a contract, the following conditions must be met:
 - (a) the Bidder must hold a valid organization security clearance as indicated in Part 7 - Resulting Contract Clauses;
 - (b) the Bidder's proposed individuals requiring access to classified or protected information, assets or sensitive work site(s) must meet the security requirement as indicated in Part 7 - Resulting Contract Clauses;
 - (c) the Bidder must provide the name of all individuals who will require access to classified or protected information, assets or sensitive work sites;
2. Bidders are reminded to obtain the required security clearance promptly. Any delay in the award of a contract to allow the successful bidder to obtain the required clearance will be at the entire discretion of the Contracting Authority.
3. For additional information on security requirements, bidders should consult the "Security Requirements for PWGSC Bid Solicitations - Instructions for Bidders" (<http://www.tpsgc-pwgsc.gc.ca/app-acq/lc-pl/lc-pl-eng.html#a31>) document on the Departmental Standard Procurement Documents website.

2. Financial Capability

Manual SACC clause A9033T (2011-05-16) Financial Capability

PART 7 - RESULTING CONTRACT CLAUSES

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

1. Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex A and the Contractor's technical bid entitled _____, dated _____ (to be completed at Contract Award).

1.1 Task Authorization

The Work or a portion of the Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract.

1.1.1 Task Authorization

The administration of the Task Authorization process will be carried out by **The Procurement and Payment group at Defence Research and Development Canada - Valcartier, represented by the DND Procurement Authority**. This process includes monitoring, controlling and reporting on expenditures of the contract with task authorizations to the Contracting Authority.

1.1.2 Task Authorization Process

Task Authorization:

A portion of the Work to be performed under the Contract will be on an "as and when requested basis" using a Task Authorization (TA). The Work described in the TA must be in accordance with the scope of the Contract.

Task Authorization Process:

1. The DND Procurement Authority will provide the Contractor with a description of the task using the DND 626, Task Authorization Form specified in Annex C.
2. The Task Authorization (TA) will contain the details of the activities to be performed, a description of the deliverables, and a schedule indicating completion dates for the major activities or submission dates for the deliverables. The TA will also include the applicable basis(bases) and methods of payment as specified in the Contract.
3. The Contractor must provide the DND Procurement Authority, **within five (5) calendar days** of its receipt, the proposed total estimated cost for performing the task and a breakdown of that cost, established in accordance with the Basis of Payment specified in the Contract.

4. The Contractor must not commence work until a TA authorized by the DND Procurement Authority has been received by the Contractor. The Contractor acknowledges that any work performed before a TA has been received will be done at the Contractor's own risk.

1.1.3 Task Authorization Limit

The DND Procurement Authority may authorize individual task authorizations up to a limit of **\$ 75 000.00** , Goods and Services Tax or Harmonized Sales Tax included, inclusive of any revisions.

Any task authorization to be issued in excess of that limit must be authorized by the Contracting Authority before issuance.

1.2 Disclosure Certification

On completion of the Work, the Contractor must submit to the Technical Authority and to the Contracting Authority a copy of the Disclosure Certification attached as Annex D stating that all applicable disclosures were submitted.

2. 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.

2.1 General Conditions

2040 (2013-06-27), General Conditions - Research & Development, apply to and form part of the Contract.

2.2 SACC Manual Clauses

K3410C (2008-12-12), Canada to Own Intellectual Property Rights in Foreground Information

K3305C (2008-05-12), License to Intellectual Property Rights in Foreground Information

3. Security

1. The Contractor must, at all times during the performance of the Contract, hold a valid Designated Organization Screening (DOS), issued by the Canadian Industrial Security Directorate (CISD), Public Works and Government Services Canada (PWGSC).
2. The Contractor/Offeror personnel requiring access to PROTECTED information, assets or sensitive work site(s) must EACH hold a valid RELIABILITY STATUS, granted or approved by CISD/PWGSC.

Until the security screening of the Contractor personnel required by this Contract has been completed satisfactorily by the CISC, PWGSC, the Contractor personnel MAY NOT ENTER sites without an escort.

3. The Contractor MUST NOT remove any PROTECTED information or assets from the identified work site(s), and the Contractor must ensure that its personnel are made aware of and comply with this restriction.
4. Subcontracts which contain security requirements are NOT to be awarded without the prior written permission of CISC/PWGSC.
5. The Contractor must comply with the provisions of the:
 - (a) Security Requirements Check List and security guide (if applicable), attached at Annex C;
 - (b) Industrial Security Manual (Latest Edition).

4. Term of Contract

4.1 Period of the Contract

The Contract period is from the date of Contract to March 31, 2017 inclusive.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Sylvie Legendre
 Title: Supply Specialist
 Public Works and Government Services Canada
 Acquisitions and Compensation Directorate
 1550 D'Estimauville Avenue
 Quebec, Quebec
 G1J 0C7

Telephone: 418 649-2860
 Facsimile: 418 648-2209
 E-mail address: sylvie.legendre@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 : _____
 Organization : _____

Telephone: _____
 Facsimile: _____
 E-mail address: _____

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

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

Administrative Representative

Name :
 Title:
 Organization:
 Telephone:
 Facsimile:
 E-mail address:

Technical Representative

Name :
 Title:
 Organization:
 Téléphone:
 Facsimile:
 E-mail address:

6. Proactive Disclosure of Contracts with Former Public Servants

By providing information on its status, with respect to being a former public servant in receipt of a Public Service Superannuation Act (PSSA) pension, the Contractor has agreed that this information will be reported on departmental websites as part of the published proactive disclosure reports, in accordance with Contracting Policy Notice: 2012-2 of the Treasury Board Secretariat of Canada.

7. Payment

7.1.1 Basis of Payment - For the Work described at section 3.1 of the Statement of Work (Annex A).

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment in Annex B, to a limitation of expenditure of \$_____ (to be inserted at contract award). Customs duties are included and applicable taxes extra, if applicable.

7.1.2 Basis of Payment - For the work described at section 3.2 (tasks subject to a task authorisation process) of the Statement of Work (Annex A).

One of the following types of basis of payment will form part of the approved Task Authorization (TA). The task price must be determined in accordance with **Section B of the Basis of Payment in Annex B**.

(a) Firm Unit Price(s) or Firm Lot Price TA

In consideration of the Contractor satisfactorily completing all of its obligations under the authorized Task Authorization (TA), the Contractor will be paid a firm price **in accordance with the basis of payment, in Annex B, Section B**, as specified in the authorized TA. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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

(b) Ceiling Price TA

The Contractor will be reimbursed its costs reasonably and properly incurred in the performance of the Work, plus a profit, as determined **in accordance with the Basis of Payment in Annex B, Section B**, to the ceiling price specified in the approved TA. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

The ceiling price is subject to downward adjustment so as not to exceed the actual costs reasonably incurred in the performance of the Work and computed in accordance with the Basis of Payment.

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 Technical Authority or the Contracting Authority, before their incorporation into the Work.

(c) TA subject to a Limitation of Expenditure

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work specified in the authorized Task Authorization (TA), as determined **in accordance with the Basis of Payment in Annex B, Section B**, to the limitation of expenditure specified in the authorized TA.

Canada's liability to the Contractor under the authorized TA must not exceed the limitation of expenditure specified in the authorized TA. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

No increase in the liability of Canada or in the price of the Work specified in the authorized TA resulting from any design changes, modifications or interpretations of the Work will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been authorized, in writing, by the Contracting Authority before their incorporation into the Work

7.2 Canada's Obligation - Portion of the Work - Task Authorizations

Canada's obligation with respect to the portion of the Work under the Contract that is performed through task authorizations is limited to the total amount of the actual tasks performed by the Contractor.

7.3 Limitation of Expenditure - Total

1. Canada's total liability to the Contractor under the Contract must not exceed \$ _____ **(the amount will be inserted at contract award)**. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

2. No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Work, will be authorized or paid to the Contractor unless these design changes, modifications or interpretations have been approved, in writing, by the Contracting Authority before their incorporation into the Work. The Contractor must not perform any work or provide any service that would result in Canada's total liability being exceeded before obtaining the written approval of the Contracting Authority. The Contractor must notify the Contracting Authority in writing as to the adequacy of this sum:
 - (a) when it is 75 percent committed, or
 - (b) four (4) months before the Contract expiry date, or
 - (c) as soon as the Contractor considers that the contract funds provided are inadequate for the completion of the Work,

whichever comes first.
3. If the notification is for inadequate contract funds, the Contractor must provide to the Contracting Authority a written estimate for the additional funds required. Provision of such information by the Contractor does not increase Canada's liability.

7.4 Method of Payment

7.4.1 For Section A of Annex B - Basis of Payment - Progress Payments

1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work up to 90 percent of the amount claimed and approved by Canada if:
 - (a) an accurate and complete claim for payment using form PWGSC-TPSGC 1111(<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>) and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
 - (b) the amount claimed is in accordance with the Basis of payment;
 - (c) the total amount for all progress payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Contract;
 - (d) all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.
2. The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.
3. Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the right to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

7.4.2 For Section B of Annex B - Basis of Payment

7.4.2.1 Payments will be made not more frequently than once a month.

7.4.2.2 Depending on the method of payment specified in the applicable TA, one of the following method of payment clauses will apply.

7.4.2.2.1 Single Payment

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Task Authorization and the Contract if:

- (a) an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (b) all such documents have been verified by Canada;
- (c) the Work delivered has been accepted by Canada.

7.4.2.2.2 Milestone Payments (For a Firm Price TA)

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Task Authorization and the payment provisions of the Contract if:

- (a) an accurate and complete invoice, and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (b) all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

7.4.2.2.2.3 Progress Payments (For a TA subject to a Limitation of Expenditure or a Ceiling Price)

(a) Canada will make progress payments in accordance with the payment provisions of the Task Authorization and the Contract for cost incurred in the performance of the Work up to **90 percent** of the amount claimed and approved by Canada if:

- (i) an accurate and complete invoice and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (ii) the amount claimed is in accordance with the Basis of payment and the Task Authorization;
- (iii) the total amount for all progress payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Task Authorization.

(b) The balance of the amount payable will be paid in accordance with the payment provisions of the Task Authorization and the Contract upon completion and delivery of all work required under the Task Authorization if the Work has been accepted by Canada and a final claim for the payment is submitted.

(c) Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the right to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

7.5 Funding by Fiscal Year

Despite the Total Estimated Cost (Limitation of Expenditure) specified in the Contract, and unless otherwise authorized in writing by the Contracting Authority, the maximum amount which may be paid for work completed in the period ending 31 March of the year specified is as follows:

Period of award to March 31st 2014:	\$ 20 000.00
Period of April 1st 2014 to March 31st 2015:	\$ 180 000.00
Period of April 1st 2015 to March 31st 2016:	\$ 150 000.00
Period of April 1st 2016 to March 31st 2017:	\$ 150 000.00

7.6 SACC Manual Clauses

A9117C (2007-11-30), T1204 - Direct Request by Customer Department
C0305C (2008-05-12), Cost Submission

8. Invoicing Instructions - Progress Claim

1. The Contractor must submit a claim for progress payment using form PWGSC-TPSGC 1111. Form PWGSC-TPSGC 1111 is available at the following Website
<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>

Each claim must show:

- (a) all information required on form PWGSC-TPSGC 1111;
 - (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
 - (c) the Task Authorization (TA) number;
 - (d) the description of the milestone invoiced, as applicable.
2. For TAs subject to a Limitation of Expenditure or a Ceiling Price, each invoice must be supported by:
 - (a) a list of all expenses, in accordance with the TA;
 - (b) a copy of time sheets to support the time claimed;
 - (c) a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;
 - (d) a copy of the monthly progress report.
 3. Goods and Services Tax (GST) or Harmonized Sales Tax (HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the

holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.

4. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Contracting Authority for certification.

ATTN: Mrs Suzanne Larrivée

Public Works and Government Services Canada
1550, Avenue D'Estimauville
Québec, Québec
G1J 5E9

The Contracting Authority will then forward the original and two (2) copies of the claim to the Technical Authority for appropriate certification after inspection and acceptance of the Work takes place, and onward submission to the Payment Office for the remaining certification and payment.

5. The Contractor must not submit claims until all work identified in the claim is completed.

9. Certifications

- 9.1 Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification or 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.

9.2 SACC Manual Clauses

A3060C (2008-05-12), Canadian Content Certification

10. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____ (to be inserted at contract award).

11. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions **2040** (2013-06-27), General Conditions - Research & Development;
- (c) Annex A, Statement of Work;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Security Requirements Checklist;
- (f) Annex D, DND 626, Task Authorization Form;
- (g) Annex E, Contractor Disclosure of Foreground Information;
- (h) the signed Task Authorizations (including all of its annexes, if any);
- (i) the Contractor's bid dated _____.

12. Defence Contract

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

13. Foreign Nationals (Canadian Contractor)

SACC *Manual* clause A2000C (2006-06-16) Foreign Nationals (Canadian Contractor)

14. Insurance

SACC *Manual* clause **G1005C** (2008-05-12), Insurance

15. Progress Reports

1. The Contractor must submit monthly reports, in electronic format, on the progress of the Work, to both the Technical Authority and the Contracting Authority.
2. The progress report must contain three parts:
 - (a) PART 1: The Contractor must answer the following three questions:
 - (i) Is the project on schedule?
 - (ii) Is the project within budget?
 - (iii) Is the project free of any areas of concern in which the assistance or guidance of Canada may be required?

Each negative response must be supported with an explanation.
 - (b) PART 2: A narrative report, brief, yet sufficiently detailed to enable the Technical Authority to evaluate the progress of the Work, containing as a minimum:
 - (i) A description of the progress of each task and of the Work as a whole during the period of the report. Sufficient sketches, diagrams, photographs, etc., must be included, if necessary, to describe the progress accomplished.
 - (ii) An explanation of any variation from the work plan.
 - (iii) A description of trips or conferences connected with the Contract during the period of the report.
 - (iv) A description of any major equipment purchased or constructed during the period of the report.

16. Site Regulations

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The Contractor must comply with all standing orders or other regulations, instructions and directives in force on the site where the Work is performed.

17. Identification badge

SACC Manual clause **A9065C** (2006-06-16), Identification Badge.

ATTACHMENT 1 - FINANCIAL BID PRESENTATION SHEET

Section A - Financial bid for the work described at section 3.1 of the Statement of Work (Annex A) - FIRM PART:

1. LABOUR : Firm all-inclusive rates (including profit and overhead, applicable taxes extra), in accordance with the following:

Note to bidders :

- Bidders are requested to quote one firm hourly rate per proposed resources and per financial year.
- If the resource works for a subcontractor, the bidder should clearly indicate the name of the subcontractor.
- Bidders may propose a number of resources greater than the number of lines available in the following table.

Labour categories and names of proposed resources	Firm all-inclusvie hourly rates								Total Cost per resource (A X B) + (C X D) + (E x F) + (G x H)
	A From Contract award to March 31, 2014	B Total Est. number of hours	C From 2014-04-01 to 2015-03-31	D Total Est. number of hours	E From 2015-04-01 to 2016-03-31	F Total Est. number of hours	G From 2016-04-01 to 2017-03-31	H Total Est. number of hours	
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____

Labour categories and names of proposed resources	Firm all-inclusive hourly rates								
	A From Contract award to March 31, 2014	B Total Est. number of hours	C From 2014-04-01 to 2015-03-31	D Total Est. number of hours	E From 2015-04-01 to 2016-03-31	F Total Est. number of hours	G From 2016-04-01 to 2017-03-31	H Total Est. number of hours	I Total Cost per resource (A X B) + (C X D) + (E x F) + (G x H)
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____

TOTAL ESTIMATED LABOUR: \$ _____

Items 2 through 7 should be completed if the Bidder's rates in 1. above do not include the following:

If an item is not applicable, write "NA" on the total estimated line.

2. EQUIPMENT: at laid down cost without markup

Description	Firm unit price	Total est. Qty.
-------------	-----------------	-----------------

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(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED EQUIPMENT: \$ _____

3. RENTALS : at actual cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED RENTALS: \$ _____

4. MATERIALS AND SUPPLIES: at laid down cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED MATERIALS AND SUPPLIES: \$ _____

5. SUBCONTRACTS: at actual cost without markup

Support for the proposed subcontractor's price is required in the same details as that required for the Bidder's price. The estimated price for subcontracts should include all direct charges and travel & living expenses which would be to the account of the subcontractor.

Details are to be provided on a separate sheet.

The bidder can include the labour cost of the subcontracts in the table of section 1.

TOTAL ESTIMATED SUBCONTRACTS: \$ _____

6. TRAVEL & LIVING: at actual cost without markup but not to exceed the limits of the Treasury Board Travel Directive. With respect to the TB Travel Directive, only the meal, private vehicle and incidental allowances specified in Appendices B, C and D of the TB Travel Directive

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<http://www.tbs-sct.gc.ca/hr-rh/gtla-vgcl/> and the other provisions of the directive referring to "travellers" rather than those referring to "employees", are applicable.

Details are to be provided on a separate sheet.

TOTAL ESTIMATED TRAVEL & LIVING: \$ _____

7. OTHER DIRECT CHARGES : at actual cost without markup

Description	Price
(a)	
(b)	
(c)	

TOTAL ESTIMATED OTHER DIRECT CHARGES: \$ _____

TOTAL ESTIMATED COST TO A LIMITATION OF EXPENDITURE for the firm part :
\$ _____
(applicable taxes extra)

Section B - Financial bid for the work of section 3.2 as described in the Statement of Work (Annex A) - Work done on request by means of a task authorization :

1. LABOUR : Firm all-inclusive rates (including profit and overhead, applicable taxes extra), in accordance with the following:

Note to bidders :

- Bidders are requested to quote one firm hourly rate per proposed resources and per financial year.
- If the resource works for a subcontractor, the bidder should clearly indicate the name of the subcontractor.
- Bidders may propose a number of resources greater than the number of lines available in the following table.

Labour Categories and name of the proposed resources	Firm All inclusive hourly rates								Total Cost (A X B) + (C X D) + (E X F) + (G x H)
	Contract Periods								
	A From date of Contract to 2014-03-31	B Total Est. Number of hours	C From 2014-04-01 to 2015-03-31	D Total Est. Number of hours	E From 2015-04-01 to 2016-03-31	F Total Est. Number of hours	G From 2016-04-01 to 2017-03-31	H Total Est. Number of hours	
Labour Category : Project Manager									
Name of the proposed resource: _____	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____
Labour Category: _____									
Name of the proposed resource: _____	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____
Labour Category: _____									
Name of the proposed resource: _____	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____
Labour Category: _____	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____

Labour Categories and name of the proposed resources	Firm All inclusive hourly rates								Total Cost (A X B) + (C X D) + (E X F) + (G x H)
	Contract Periods								
	A From date of Contract to 2014-03-31	B Total Est. Number of hours	C From 2014-04-01 to 2015-03-31	D Total Est. Number of hours	E From 2015-04-01 to 2016-03-31	F Total Est. Number of hours	G From 2016-04-01 to 2017-03-31	H Total Est. Number of hours	
Name of the proposed resource:									
Labour Category:									
Name of the proposed resource:	\$ / hour	hours	\$ / hour	hours	\$ / hour	hours	\$ / hour	hours	\$
Labour Category:									
Name of the proposed resource:	\$ / hour	hours	\$ / hour	hours	\$ / hour	hours	\$ / hour	hours	\$

TOTAL ESTIMATED LABOUR: \$

Items 2 through 7 should be completed if the Bidder's rates in 1. above do not include the following:

If an item is not applicable, write "NA" on the total estimated line.

2. EQUIPMENT: at laid down cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED EQUIPMENT: \$ _____

3. RENTALS : at actual cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED RENTALS: \$ _____

4. MATERIALS AND SUPPLIES: at laid down cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED MATERIALS AND SUPPLIES: \$ _____

5. SUBCONTRACTS: at actual cost without markup

Support for the proposed subcontractor's price is required in the same details as that required for the Bidder's price. The estimated price for subcontracts should include all direct charges and travel & living expenses which would be to the account of the subcontractor.

Details are to be provided on a separate sheet.

The bidder can include the labour cost of the subcontracts in the table of section 1.

TOTAL ESTIMATED SUBCONTRACTS: \$ _____

6. TRAVEL & LIVING: at actual cost without markup but not to exceed the limits of the Treasury Board Travel Directive. With respect to the TB Travel Directive, only the meal, private vehicle and incidental allowances specified in Appendices B, C and D of the TB Travel Directive <http://www.tbs-sct.gc.ca/hr-rh/gtla-vgcl/> and the other provisions of the directive referring to "travellers" rather than those referring to "employees", are applicable.

Details are to be provided on a separate sheet.

TOTAL ESTIMATED TRAVEL & LIVING: \$ _____

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7. OTHER DIRECT CHARGES : at actual cost without markup

Description	Price
(a)	
(b)	
(c)	

TOTAL ESTIMATED OTHER DIRECT CHARGES: \$ _____

**TOTAL ESTIMATED COST TO A LIMITATION OF EXPENDITURE for the work done on request, by
means of a task authorization \$ _____
(applicable taxes extra)**

ATTACHMENT 2**MANDATORY AND POINT RATED TECHNICAL CRITERIA****1. Mandatory Technical Criteria**

At bid closing time, the Bidder must comply with the following mandatory technical criteria and provide the necessary documentation to support compliance. Any bid which fails to meet the following mandatory technical criteria will be declared non-responsive. Each criterion should be addressed separately.

To enable the evaluation team to properly evaluate the proposals, bidders must provide the CV of each proposed resource. The CVs must clearly and explicitly demonstrate that the proposed resources meet each of the mandatory criteria.

To determine whether the experience of the proposed resources is acceptable, the bidder must provide a description of the project in which the proposed resources were involved. The following information should be provided for each project: the topic, the context, the objectives, the scope, the software tools involved (if applicable), the project periods (month and year of the beginning and month and year of the end), the exact dates of the involvement of the proposed resource, the role of the proposed resource in the project, the level of effort in the project for the proposed resource, the tasks performed by the proposed resource and the duration of each task performed by the proposed resource.

Mandatory Technical Criteria	Description
1	The Bidder must have at least 60 months of experience in the field of optronic surveillance systems, atmospheric science and calculating atmospheric effects on systems.
2	<p>The Bidder must demonstrate that the lead resource* proposed for Characterizing sensors (Task 3A) has already performed the types of measurement required.</p> <p>* The workload of the lead resource in terms of time must account for over 40% of the total time dedicated to the task. This resource is also responsible for the deliverables (computer products and reports).</p>
3	<p>The lead resource* proposed for Calculating DRI (Task 3B) must have a Bachelor's degree in engineering, physics or mathematics, and demonstrate experience in the field of calculating EO/IR detection considering all sensor characteristics within the last 36 months.</p> <p>* The workload of the lead resource in terms of time must account for over 40% of the total time dedicated to the task. This resource is also responsible for the deliverables (computer products and reports).</p>

Mandatory Technical Criteria	Description
4	<p>The lead resource* proposed for Improving calculations of transmittance and luminance (Task 3C) must have a Bachelor's degree in computer science, engineering, physics or mathematics, and demonstrate experience in the field of atmospheric radiative transfer, specifically using the correlated-K approach, over more than 36 months acquired in the last 60 months.</p> <p>* The workload of the lead resource in terms of time must account for over 40% of the total time dedicated to the task. This resource is also responsible for the deliverables (computer products and reports).</p>
5	<p>Toutes resources assigned to developing code (Tasks 3C and 3D) must have a Bachelor's degree in computer science, engineering, physics or mathematics, and have a minimum of 24 months of experience (acquired in the last 60 months) in developing scientific computer programs in C/C++ for WINDOWS.</p>

2. Point Rated Technical Criteria

Point Rated Technical Criteria			MIN	MAX
1. TECHNICAL PROPOSAL			52	127
<p>1.1 Demonstrated understanding of context, scope and objectives</p> <p>Demonstrated understanding of the context, scope and objectives should be complete and not limited to the description in the "Statement of Work and Work Plan." The bidder should use its own words to provide a convincing demonstration of its understanding of the context, scope and objectives from the "Statement of Work and Work Plan."</p> <p>The key elements are as follows:</p> <p>a. A short introduction</p> <p>b. A concise evaluation of the following:</p> <p>i. Project requirements</p> <p>ii. Proposed work objectives</p> <p>iii. Reasons justifying the proposed work approach</p>		<p>20 pts : Demonstrates excellent understanding of the context, scope and objectives. All key elements are identified and discussed.</p> <p>16pts : Demonstrates very good understanding of the context, scope and objectives. Almost all key elements are identified and discussed.</p> <p>12pts : Demonstrates good understanding of the context, scope and objectives. Most of the key elements are identified and discussed.</p> <p>4 pts : Demonstrates average understanding of the context, scope and objectives. Some</p>	12	20

		key elements are missing or insufficiently discussed. 0 pts : Demonstrates poor understanding of the context, scope and objectives. Few key elements are identified and discussed.		
1.2 Methodology and proposed solution The bidder should clearly present its proposed technical approach and methodology. The technical approach and methodology should be coherent, relevant, complete and realistic. Innovation will also be evaluated.		<p>15 pts: The proposed technical approach and methodology far exceed the requirements, and are extremely coherent, relevant, realistic and complete.</p> <p>12 pts: The proposed technical approach and methodology exceed the requirements, and are very coherent, relevant, realistic and complete..</p> <p>9 pts: The proposed technical approach and methodology meet the requirements, but are just barely coherent, relevant, realistic and complete.</p> <p>5 pts: The proposed technical approach and methodology minimally meet the requirements, and are minimally coherent, relevant, realistic and complete.</p> <p>0 pt: The proposed technical approach and methodology do not meet the requirements, and are not coherent, relevant, realistic or complete.</p>		
1.2.1 - Task 3A - Characterizing sensors			5	15
1.2.2 - Task 3B - Modelling sensors			5	15
1.2.3 - Task 3B - Modelling sensors			5	15
1.2.4 - Task 3D - Calculating DRI and updating the Predictor			5	15
1.2.5 - Authorized tasks			5	15
1.3 Identification of risk factors The bidder should clearly describe all project components that could		10 pts: The main risk factors and the method for managing those risks are identified for all	10	6

<p>pose a risk and should propose a risk management plan. The components described should be relevant and the risk management plan should be realistic.</p>		<p>tasks, and exceed the requirements.</p> <p>8 pts: The main risk factors and the method for managing those risks are identified for most tasks, and meet the requirements.</p> <p>5 pts : Risk factors and the method for managing those risks are identified for some tasks, and just barely meet the requirements.</p> <p>3 pts: The risks and risk management method were poorly identified, or do not meet the requirements.</p> <p>0 pt : The bidder did not submit enough information to evaluate.</p>		
<p>1.4 Clarity and accuracy of information provided</p> <p>The bidder will be evaluated on the clarity and accuracy of the content of its proposal.</p>		<p>10 pts: Ease in understanding the proposal</p> <p>8 pts : The proposal is very well structured and very easy to understand)</p> <p>6 pts : The proposal is well structured and easy to understand</p> <p>4 pts : The proposal is poorly structured or difficult to understand</p> <p>0 pt : The proposal is poorly structured and difficult to understand</p>	6	10
<p>1.5 Assignment of personnel</p> <p>The bidder should clearly describe how it intends to assign its personnel to the various tasks and the specific role of each person with regard to each task. Personnel assignments should be realistic, relevant and appropriate for the execution of the project.</p>		<p>4 pts : Excellent allocation of personnel; all personnel are assigned appropriate effort levels; and resources are assigned to tasks that correspond to their area of expertise/skills.</p> <p>3 pts : Personnel allocation is complete and detailed; at least 80% of the personnel are</p>	2	4

		<p>judiciously assigned in terms of effort level; and 80% of resources are assigned to tasks that correspond to their area of expertise/skills.</p> <p>2 pts : Personnel allocation is complete; at least 60% of the personnel are assigned an appropriate effort level; and 60% of resources are assigned to tasks that correspond to their area of expertise/skills</p> <p>1 pt : Unclear personnel allocation, with a few deficiencies; at least 50% of the personnel are assigned a realistic effort level.</p> <p>0 pt : Any other situation</p>		
<p>1.6 Workload distribution</p> <p>The bidder should clearly describe the roadmap of the project and how workloads are to be assigned for each task; i.e., the estimated number of work hours for each resource. Workload assignment should be realistic given the characteristics of the project.</p>		<p>8 pts : Effort allocation documentation is complete, clear and explicit; effort level of all tasks is appropriate and realistic; excellent probability that objectives will be achieved.</p> <p>6 pts : Effort allocation documentation is complete and clear; effort level of most tasks is appropriate and realistic; very strong probability that objectives will be achieved.</p> <p>4 pts : Effort allocation documentation is complete; effort level of most tasks is realistic; strong probability that objectives will be achieved.</p> <p>2 pts : Effort allocation documentation is unclear; task effort level for the most part realistic, with a few deficiencies; strong probability that a number of objectives will not be achieved.</p> <p>0 pt : Any other situation</p>	4	8

2. EXPERIENCE OF RESOURCES DIRECTLY INVOLVED IN THE PROJECT		65	135
<p>The Bidder should clearly identify the name of the proposed resource for each labour category.</p> <p>The Bidder should submit with its proposal the curriculum vitae (CV) of the proposed resource. The Bidder should indicate the resource's experience in terms of months of experience</p> <p>The CV should provide enough information to enable the evaluation team to properly evaluate the proposal. If the information provided is not sufficient to confirm that the experience meets the requirements of the criterion, the points for that criterion will not be attributed.</p> <p>To determine whether the experience of the proposed resources is acceptable, the bidder should provide a description of the project in which the proposed resources were involved. The following information should be provided for each project: the topic, the context, the objectives, the scope, the software tools involved (if applicable), the project periods (month and year of the beginning and month and year of the end), the exact dates of the involvement of the proposed resource, the role of the proposed resource in the project, the level of effort in the project for the proposed resource, the tasks performed by the proposed resource and the duration of each task performed by the proposed resource.</p> <p>Listing experience without providing any supporting data to describe where and how such experience was obtained will result in the experience not being included for evaluation purposes.</p> <p>To be considered by the evaluation team, the diploma must be from a recognized Canadian university, or an equivalent established by a recognized Canadian credential-assessment service if the diploma or certificate was obtained abroad.</p> <p>* The list of recognized organizations is posted on the Web site of the Canadian Information Centre for International Credentials at the following address: http://cicic.ca</p>			
<p>2.1 The lead resource assigned to Task 3A must have experience in the area of characterizing laboratory sensors</p>	<p>20 points: The proposed resource has performed this type of work before, more than once in the last 24 months.</p> <p>16 points: The proposed resource has performed this type of work before, in the last 24 months.</p> <p>12 points: The proposed resource has performed this type of work before, in the last 36 months.</p>	8	20

		<p>8 points: The proposed resource demonstrates familiarity with all of the work required through the description of his or her previous projects.</p> <p>4 points: The resource demonstrates limited experience on a certain number of items only.</p> <p>0 point : The resource does not demonstrate experience deemed relevant or sufficient.</p>		
<p>2.2 The lead resource assigned to Task 3B should have a degree in physics or engineering.</p>		<p>15 pts: Bachelor's degree</p> <p>30 pts: Master's degree or PhD</p>	15	30
<p>2.3 The lead resource assigned to Task 3B should demonstrate experience in modelling sensors.</p> <p>This resource must be involved in Task 3D.</p> <p>The bidder must demonstrate the resource's experience by presenting his or her past accomplishments and publications if applicable.</p>		<p>20 points: The proposed resource demonstrates experience in this type of modelling through more than one publication in open literature (peer review) in the last 10 years..</p> <p>16 points: The proposed resource demonstrates experience in this type of modelling through more than one publication in open literature (peer review) in the last 10 years.</p> <p>12 points: The resource demonstrates experience in this type of modelling through work that is fully related to the field in the last 48 months.</p> <p>8 points: The resource demonstrates experience in this type of modelling in the last 36 months through work that is partly related to the field.</p>	8	20

		<p>4 points: The resource demonstrates experience in this type of modelling in the last 36 months through work that is not very related to the field.</p> <p>0 point: The proposed resource experience that is insufficient or very indirectly related to the field.</p>		
2.4 The lead resource assigned to Tasks 3C and 3D must have a degree in computer science, physics or engineering.		<p>15 pts: Bachelor's degree</p> <p>30 pts: Master's degree or PhD</p>	15	30
<p>2.5 The lead resource proposed for Task 3C should demonstrate experience in the area of calculating radiative transfer.</p> <p>Bidders must demonstrate the resource's knowledge and experience by presenting his or her past accomplishments and scientific publications.</p>		<p>20 pts : Publication that is fully relevant to the field, in literature with peer review, in the last 10 years</p> <p>16 pts : Reports or articles directly related to the field in the last 8 years</p> <p>12 pts : Experience in modelling directly related to the field in the last 5 years</p> <p>8 pts : Experience in modelling partly related to the field in the last 5 years</p> <p>4 pts : Experience in modelling slightly related to the field in the last 5 years</p> <p>0 pt : Experience in modelling insufficiently related to the field</p>	10	20
<p>2.6 Oral communications skills (required primarily for Task 3E)</p> <p>The bidder must demonstrate the skills of the lead resources proposed for Tasks 3B and 3C in oral communication of technical content, because these individuals will be required to work on Task 3E.</p> <p>This must be done by citing presentations to symposiums or</p>		<p>1 point per presentation, supported by the topics of the presentations, the dates, the locations and the organizations concerned.</p>	3	5

working groups in related fields, in the last 36 months				
2.7 Quality of documents submitted The bidder should provide sample reports (not revised outside of the company) and/or computer documents (e.g. software documentation/user guides) produced in the last 30 months, 2 documents (or excerpts of documents) of different types, 2 to 3 pages each. The principal author of the documents must be proposed as a primary stakeholder for this contract. The documents will be evaluated using the following 5 criteria: spelling and grammar, vocabulary, syntax, document structure, and coherence/logic/comprehension.		10 pts : Documents produced are of excellent quality 8 pts : Documents produced are of very good quality and contain few errors 6 pts : Documents produced are deemed to be of average quality and contain few errors 4 pts : Documents produced are of poor quality and contain many errors 0 pt : Documents produced are deemed to be of poor quality	6	10
3. EXPERIENCE OF THE BIDDER The bidder should describe each project as follows: - Title; - Client/company contacts; - Start and end dates (months and years); - Brief description of the tasks carried out by the Bidder; - Disciplines involved in the project; - Budget of the project. - Etc.			20	40
3.1 Experience designing and developing scientific computer code in C/C++ and FORTRAN Experience demonstrated by a description of the projects, their start and end dates, and their duration in months.		20 pts : More than 4 separate C/C++ projects completed in the last 84 months, of which at least 2 also involved FORTRAN 15 pts : 3 or 4 separate C/C++ projects completed in the last 72 months, of which at least 2 also involved FORTRAN 10 pts : 2 or 3 separate C/C++ projects completed in the last 60 months, of which at least 1 also involved FORTRAN	10	20

3.2 Experience designing and developing scientific computer code using windows-based HMI Experience demonstrated by a description of the projects, their start and end dates, and their duration in months		10 pts : More than 5 separate projects completed in the last 84 months 7 pts : 4 or 5 separate projects completed in the last 72 months 5 pts : 3 separate projects completed in the last 60 months	5	10
3.3 Experience designing scientific computer code using the Visual Studio development environment. Experience demonstrated by a description of the projects, their start and end dates, and their duration in months.		10 pts :More than 5 separate projects completed in the last 84 months 7 pts : 4 or 5 separate projects completed in the last 72 months 5 pts : 3 separate projects completed in the last 60 months	20	8

ANNEX A - STATEMENT OF WORK

1. General

1.1 Title

Improvement of the Airborne Optronic Sensor Performance Predictor

1.2 Objective

The objective of the contract is to improve the airborne EO/IR sensor performance predictor, primarily with regard to characterizing and modelling the sensors and calculating transmittance and radiance.

1.3 Background

Over the past year, DRDC Valcartier has been working with AEREX Avionics Inc. to develop a contrast prediction software program based on weather conditions for airborne sensors. The software program, here referred to as "Predictor," is designed to take in Environment Canada forecasting data in GRIB2 format [1] and run the SMARTi radiative transfer library developed by AEREX Avionics to calculate atmospheric radiance and transmittance [2].

The objective of this contract is to improve the Predictor, primarily with regard to calculating detection probability and characterizing the sensors.

1.4 Acronyms

CAN\$:	Canadian Dollar
AFRL:	Air Force Research Laboratory, USA
DRI :	Detection, Recognition and Identification
EO:	Electro-optics
FOV:	Field of View (of the sensor)
IDE:	Integrated Development Environment
HMI:	Human-machine Interface
IR:	Infrared
CK:	Correlated-K (method for computing radiative transfer)
MODTRAN:	MODerate resolution TRANsmission (AFRL model)
MRRD:	Minimum Resolvable Radiance Difference
MRTD:	Minimum Resolvable Temperature Difference
MTF:	Modulation Transfer Function
NETD:	Noise Equivalent Temperature Difference
NATO:	North Atlantic Treaty Organization
SET174 :	NATO Study Group on Decision Aids
DRDC:	Defence Research and Development Canada
SMARTI :	Suite for Multi-resolution Atmospheric Radiative Transmission Interface
SVN :	Project SubVersion platform/server.

2. APPLICABLE REFERENCES

[1] http://www.weatheroffice.gc.ca/grib/grib2_HRDPS_HR_e.html

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- [2] Ross, V. and D. Dion, "SMART and SMARTI: visible and IR atmospheric radiative transfer libraries optimized for wide band applications," Proc. SPIE 8014, 80140S (2011), May 2011
- [3] Night Vision Thermal Imaging Systems Performance Model (NVTherm), User's Manual & Reference Guide, U.S. Army Night Vision and Electronic Sensors Directorate, FT. Belvoir, VA 22060-5677, Dec 2002 (DOCUMENT : Rev 7)
<http://www.zieg.com/links/sensors/NVThermManual5.pdf>
- [4] Potvin, G., D. Dion and G. Fortin, "On the blending of surface layer and upper air profiles," DRDC Draft report
- [5] Dion, D., "EOSPEC: Description, development environments and installation," EOSPEC-LIB readme file, 2012
- [6] Ross, V. (AEREX Avionique inc). "The SMARTI Library v1.0," SMARTi Module documentation, EOSPEC-LIB document, Nov 2011

3. SCOPE OF THE WORK

This contract consists of a firm portion (3.1) and a task authorization portion (3.2).

3.1 - Firm portion

3.1.1. - Description of mandatory tasks

The Contractor shall carry out the following five (5) tasks.

Task 3A: Characterizing and testing sensors

The FLIR SC6000 MWIR and LWIR thermal imagers belonging to DRDC Valcartier need to be finely characterized and tested in outdoor operations by the Contractor. The tasks are as follows:

3.A.1. The Contractor shall take measurements of the characteristics of the SC6000 MWIR and LWIR imagers at the DRDC Valcartier laboratory. The Contractor shall precisely determine:

1. the spectral response;
2. the level of noise (NETD);
3. the field of view (FOV);
4. the modulation transfer function (MTF);
5. the dynamic range; and
6. the sensitivity in terms of MRTD/MRRD.

System noise and the dynamic range shall be evaluated with adjustments of the minimum and maximum gain. The pattern noise level shall be determined. Noise measurements shall be taken for each of the usual camera operating modes. MRTD/MRRD shall be evaluated by at least three people and the tests shall include positive and negative contrast situations. The MRTD/MRRD tests shall be performed under the cameras' nominal (not necessary optimal) configuration.

To carry out these measurements, DRDC Valcartier shall make the following available to the Contractor:

- A power supply;
- A CI Systems collimator, blackbody and target wheel;
- CI Systems automatic testing software;
- A SPEX monochromator
- A Newport turntable with a resolution of 1 arcminute;

- A Sony MiniDV video recorder;
- A computer (PC) with an IEEE 1394 port for connecting the video recorder; and
- DRDC's MatLab analysis software.

The deliverable shall be a short letter report (in Microsoft Word format) that outlines the six (6) parameters measured and explains the measurement conditions. Hard copy and electronic versions shall be delivered.

The work shall be completed one month following the date when the sensors are made available, no later than the end of the first fiscal year.

- 3.A.2.** The Contractor shall help with image acquisition using two FLIR cameras at the Parc Lemay test site at DRDC Valcartier, to test the functioning of the cameras under actual outdoor operating conditions. The measurements shall be taken in the summer or fall of 2014 over a period of one week. The week of measurements will be specified by the Scientific Authority at least six weeks prior to the testing. The measurements will consist of image acquisitions over time. During the testing, the Contractor shall:

Record atmospheric context data gathered using the installations at Parc Lemay. The data consists of the following:

1. Air temperature
 2. Humidity
 3. Wind speed
 4. Downward radiant flux (diffuse and direct), visible and IR
 5. Visible upward flux
 6. Soil moisture
 7. Visibility
 8. Rate of precipitation
 9. Cloud cover (using photographs).
- The Contractor shall verify the validity of the data gathered and plot the data for the measurement period.
 - The Contractor shall deploy targets (aluminum plates) of various sizes and reflectivities, as well as two reference targets (blackbodies) for calibration purposes.
 - The Contractor shall measure the temperature of the targets and the ground using the kt15 radiometer and iButton provided by DRDC Valcartier.
 - The Contractor shall use the cameras to record images. The recording frequency depends on the variability of the scene according to atmospheric conditions. The frequency may vary from 5 recordings to at least 1 per hour over the course of the day. The weekly total shall not exceed 50 recordings.
 - After collecting the measurements, the Contractor shall:
 1. Compare, on a graph, the temperatures measured (on the plates and on the ground) using various instruments.
 2. Analyze the collected images using ENVI software (housed at DRDC Valcartier) to separate the target and background luminances and extract the spatial characteristics of the background luminance (e.g. variance and power spectrum)
 3. Compare the context measurements with the information obtained from the image analysis.

The deliverable for 3.A.2 is:

All of the data gathered (including images) stored on an internal site to be determined by the Scientific Authority.

A letter report (in Microsoft Word format) presenting the analysis results. Hard copy and electronic versions shall be delivered.

The work shall be completed two months following the testing start date, which is expected to be between 15 September and 15 October of the first year.

Task 3B: Modelling the sensors

The Contractor shall produce a DRI (Detection, Recognition and Identification) calculation model using the Johnson approach and drawing on the work of NightVision Lab in the USA [3].

The Contractor shall also:

- 3B.1.** Compare the MRTDs measured (in Task 3A) to the MRTDs obtained in the model and comment on the results;
- 3B.2.** Discuss the implications of considering an MRRD in place of an MRTD for detection calculation within the Predictor;
- 3B.3.** Submit the developed model to the Scientific Authority for comments. The Contractor shall outline the similarities and differences with NVTherm [3] and the German model TRM. The Scientific Authority will have three (3) weeks to comment. Corrections shall be made to the model following the comments made by the Scientific Authority.
- 3B.4.** Develop a computer model, after the model has been approved by the Scientific Authority. The code shall constitute a new C/C++ module in the EOSPEC library of DRDC Valcartier [5]. The EOSPEC development architecture is housed at DRDC Valcartier.

The delivery includes:

- the source file of the main function;
- technical documentation (in Microsoft Word format) that briefly outlines the physical model;
- user documentation (in the heading of the header file .h);
- the development environment (IDE) with the Visual Studio solutions; and
- an example of use (calling program).

The work shall be completed 7 months after the start of the sensor modelling work and before the midpoint.

Task 3C: Improving radiance and transmittance calculations

Modelling of vertical profiles shall be reviewed with regard to the relationship between surface layer and upper air thermodynamic profiles. A new connection shall be implemented using a new method developed by DRDC Valcartier [4]. Also, a study shall be conducted to propose a solution for calculating transmittance and radiance with SMARTi under varying conditions of distance.

Specifically, the Contractor shall:

- 3C.1.** Develop a profile blending code using the method recently developed by DRDC Valcartier [4]. The "Profile blending" module shall be developed in C/C++ and delivered in the architecture of

the DRDC Valcartier EOSPEC library. The EOSPEC development architecture is housed at DRDC Valcartier. The delivery shall include:

- i. the source file of the main function;
- ii. technical documentation (in Microsoft Word format) that briefly outlines the physical model
- iii. user documentation (in the heading of the header file .h);
- iv. the development environment (IDE) with Visual Studio solutions; and
- v. an example of use (calling program) using surface conditions and an upper-layer profile defined in a file. The resulting profile shall be saved in a file.

3C.2. Develop a method of calculating transmittance and radiance with SMARTi for varying conditions with range. The deliverable is a report presenting the theoretical approach and all details necessary for implementation. The limitations of the theoretical approach shall be clearly described in the report. The report shall be delivered in electronic format (.pdf).

The work shall be completed 5 months following the start of calculation improvement work and before the end of the midpoint.

Task 3D: Calculating the DRI and updating the Predictor

The Predictor's detection calculation shall be reviewed to offer the following functionalities:

3D.1 Two contrast calculations shall be performed by the contractor:

- i. Considering only the thermal radiance of the target
- ii. Considering only the thermal and reflection contributions of the target

In both cases, the calculation of the background radiance shall be complete and include the thermal and reflection contributions.

3D.2 The detection calculation shall be performed using the following options (user's choice):

- i. By a simple threshold exceedance for a threshold defined by the user
- ii. According to a saved MRTD/MRRD curve (i.e. a measurement)
- iii. According to a modelled MRTD/MRRD curve using the DRI calculation module developed in Task 3B.

The deliverable for this task consists of a new version of the Predictor. It shall be delivered on the Development Group's SVN server with an example of functioning.

The example shall be described in an Annex to the Predictor's technical documentation.

The work shall be completed 4 months after the start of DRI calculation work and before the end of the second year.

Task 3E: Assist the Scientific Authority with national and international relations

The primary project stakeholders shall provide assistance to the Scientific Authority in his relations with the client and with national and international partners. The work consists of the following:

3E1. Preparing presentations (in Microsoft PowerPoint format) about the work done for project progress meetings with partners or clients, or for presentations to symposiums.

3E2. Participating in meetings with discussion groups or in symposiums in the fields being studied. For these meetings, travel is anticipated twice a year, in Canada, Europe or the United States.

For this task, the Contractor shall allocate a maximum of \$CAN 20,000 to respond to the Scientific Authority's request if necessary. If only part of the amount needs to be used, it will be added to the amount available for authorized tasks (see Item 3.2).

The deliverable consists of the presentation material and attendance at meetings/symposiums.

3.1.2. - Report and other deliverables

Draft versions of the deliverables shall be provided to the Technical Authority for review in accordance with the schedules for each task. The Scientific Authority will review the submitted versions within ten (10) business days of receiving them and will provide comments to the Contractor. The Contractor shall take the comments into consideration for the final delivery.

The draft and final versions of the documents shall be stored on the project's SharePoint site. The required format for each document is specified in the task descriptions. Documentation deliverables shall be in the English language.

All elements related to code development shall be delivered on the project's SVN server.

3.1.3. - Meetings

A general meeting will be held at the start of the contract. In addition, at the request of the Scientific Authority (at least every two months), short meetings (less than two hours) will be held to review the work progress. These meetings will take place for the entire duration of the work described above, and will be held at DRDC Valcartier and notification will be provided at least one week in advance. At these meetings, the Contractor's project lead must present:

- an up-to-date report of expenses
- a statement of the work accomplished since the last meeting
- work progress relative to the overall objectives
- a statement of the difficulties encountered
- expectations for the next stage.

3.2 - Work done on request by means of a task authorization

The Contractor shall be able to provide the services described below on request. Tasks will be assigned using a Task Authorization (TA). A TA may refer to more than one service, and a single service may be repeated multiple times over the course of the Contract.

3.2.1. - Description of services

The services requested will focus on the following:

- A. Characterizing new sensors (following the example of the work requested in Task 3A) with deliverables similar to the deliverables for Task 3A1.
- B. Calculating DRI: for refining the model developed in Task 3B with deliverables similar to the deliverables for Task 3B.

-
- C. Reviewing the model for calculating radiative transfer for varying conditions of distance (developed in Task 3C), or on integrating it into the EOSPEC environment, with deliverables similar to the deliverables for Task 3C.
 - D. Improving the physical and computer models of the EOSPEC modules in relation to the modelling of atmospheric profiles, calculations of refractive effects, calculations of atmospheric radiances and luminances with or without SMARTi, or the calculation of background radiance. The deliverable shall be of the same type as the deliverable for Task 3B.
 - E. Improving or updating to the Predictor; the work may involve the user interface (HMI), modelling of sensors, characterization and modelling of targets and backgrounds, and factoring in EC environmental data. The deliverable shall be of the same type as the deliverable for Task 3D.
 - F. Taking measurements for experimental validation of EOSPEC and the Predictor, with deliverables similar to the deliverables for Task 3A2.
 - G. Performing validation analysis using experimental data, with deliverables similar to the deliverables for Task 3A2.
 - H. Assisting the Scientific Authority in his or her national and international relations and relations with the client (similar to the work requested in Task 3E), with a deliverable similar to the deliverable for Task 3E.

3.2.2. - Report and other deliverables for authorized tasks

The deliverables and timelines will be specified once the tasks are assigned. Draft versions of the final deliverables must be provided to the Technical Authority for quality review at least four weeks before the deadline specified in the timetable. The Scientific Authority will review the final draft version of these reports within 10 working days of receipt in order to provide comments to the Contractor. The Contractor shall take these comments into consideration for the final delivery.

The draft and final versions of the documents must be provided in Microsoft® Word format on the project SharePoint site. The format required shall be specified in the task description. The document deliverables shall be written in English.

All elements related to code development shall be delivered on the EOSPEC project's SVN development server.

3.2.3. - Meetings during the authorized tasks period

A general meeting will be held at the start of each new task authorized. In addition, at the request of the Scientific Authority, short meetings (approximately one hour) will be held to review the work progress, at least every two months for tasks longer than two months. These meetings will take place for the entire duration of the work described above, will be held at DRDC Valcartier and notification will be provided at least one week in advance. At these meetings, the Contractor's project lead shall present:

- an up-to-date report of expenses
- a statement of the work accomplished since the last meeting
- work progress relative to the overall objectives
- a statement of the difficulties encountered
- expectations for the next stage.

4. GOVERNMENT FURNISHED EQUIPMENT/ASSISTANCE (GFE)

All computer work must be done in the project's SVN development environment, which is housed on a server that can only be accessed internally. The Contractor will be granted access to the DRDC Valcartier computer network to be able to interact freely with that development environment. In addition, DRDC Valcartier will supply the Contractor with the hardware and software tools required to develop programs, including external libraries used. Although they are not classified, some of those computer programs, in particular MODTRAN, may only be used on site at DRDC Valcartier.

DRDC Valcartier will provide the technical aids mentioned in item 3A for characterizing the sensors.

5. WORK SITE

The characterization of the DRDC SC6000 sensors (Firm Task 3A) shall be performed in DRDC Valcartier laboratories.

All computer work must be done at DRDC Valcartier, as it must be integrated into the EOSPEC's SVN software development environment, which can only be accessed internally. In addition, some of the software required to carry out the work, such as DRDC Valcartier's MODTRAN versions, may only be used on site. These software programs were obtained under strict usage conditions, through preferred agreements.

6. PUBLICATIONS IN REVIEWS, JOURNALS OR OTHER MEDIA

All manuscripts to be published in reviews, journals or on other media, as well as presentation summaries and other publications, must be submitted to the Technical Authority for review and approval at least ninety (90) days before the presentation or publication date. An explicit reference to Canadian government funding must be included, and it must be clearly stated that the content is the responsibility of the authors. The Technical Authority will provide a written objection if there are specific elements (such as the audience) that are not in the federal government's best interest. If the Technical Authority objects in writing, he or she will send the written objection to the organization responsible for the publication (journal or conference).

ANNEX B - BASIS OF PAYMENT

Section A - Financial bid for the work described at section 3.1 of the Statement of Work (Annex A)- FIRM PART:

1. LABOUR : Firm all-inclusive rates (including profit and overhead, applicable taxes extra), in accordance with the following:

Labour categories and names of proposed resources	Firm all-inclusvie hourly rates								
	A From Contract award to March 31, 2014	B Total Est. number of hours	C From 2014-04-01 to 2015-03-31	D Total Est. number of hours	E From 2015-04-01 to 2016-03-31	F Total Est. number of hours	G From 2016-04-01 to 2017-03-31	H Total Est. number of hours	I Total Cost per resource (A X B) + (C X D) + (E x F) + (G x H)
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____

Labour categories and names of proposed resources	Firm all-inclusive hourly rates								
	A From Contract award to March 31, 2014	B Total Est. number of hours	C From 2014-04-01 to 2015-03-31	D Total Est. number of hours	E From 2015-04-01 to 2016-03-31	F Total Est. number of hours	G From 2016-04-01 to 2017-03-31	H Total Est. number of hours	I Total Cost per resource (A X B) + (C X D) + (E x F) + (G x H)
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____
Labour Category : Name of the proposed resource:	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____ /hour	_____ hours	\$ _____

TOTAL ESTIMATED LABOUR: \$ _____

Items 2 through 7 should be completed if the Bidder's rates in 1. above do not include the following:

If an item is not applicable, write "NA" on the total estimated line.

2. EQUIPMENT: at laid down cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$ _____	
(b)	\$ _____	
(c)	\$ _____	
(d)	\$ _____	
(e)	\$ _____	

TOTAL ESTIMATED EQUIPMENT: \$ _____

3. RENTALS : at actual cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED RENTALS: \$ _____

4. MATERIALS AND SUPPLIES: at laid down cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED MATERIALS AND SUPPLIES: \$ _____

5. SUBCONTRACTS: at actual cost without markup

Support for the proposed subcontractor's price is required in the same details as that required for the Bidder's price. The estimated price for subcontracts should include all direct charges and travel & living expenses which would be to the account of the subcontractor.

Details are to be provided on a separate sheet.

The bidder can include the labour cost of the subcontracts in the table of section 1.

TOTAL ESTIMATED SUBCONTRACTS: \$ _____

6. TRAVEL & LIVING: at actual cost without markup but not to exceed the limits of the Treasury Board Travel Directive. With respect to the TB Travel Directive, only the meal, private vehicle and incidental allowances specified in Appendices B, C and D of the TB Travel Directive <http://www.tbs-sct.gc.ca/hr-rh/gtla-vgcl/> and the other provisions of the directive referring to "travellers" rather than those referring to "employees", are applicable.

Details are to be provided on a separate sheet.

TOTAL ESTIMATED TRAVEL & LIVING: \$ _____

7. OTHER DIRECT CHARGES : at actual cost without markup

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Buyer ID - Id de l'acheteur

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

W7701-14-5784

QCN-3-36195

Description	Price
(a)	
(b)	
(c)	

TOTAL ESTIMATED OTHER DIRECT CHARGES: \$ _____

TOTAL ESTIMATED COST TO A LIMITATION OF EXPENDITURE for the firm part :
\$ _____
(applicable taxes extra)

Section B - Financial bid for the work of section 3.2 as described in the Statement of Work (Annex A) - Work done on request by means of a task authorization :

1. LABOUR : Firm all-inclusive rates (including profit and overhead, applicable taxes extra), in accordance with the following:

Labour Categories and name of the proposed resources	Firm All inclusive hourly rates								Total Cost (A X B) + (C X D) + (E X F) + (G x H)
	Contract Periods								
	A From date of Contract to 2014-03-31	B Total Est. Number of hours	C From 2014-04-01 to 2015-03-31	D Total Est. Number of hours	E From 2015-04-01 to 2016-03-31	F Total Est. Number of hours	G From 2016-04-01 to 2017-03-31	H Total Est. Number of hours	
Labour Category : Project Manager									
Name of the proposed resource: _____	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____
Labour Category: _____									
Name of the proposed resource: _____	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____
Labour Category: _____									
Name of the proposed resource: _____	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____
Labour Category: _____									
Name of the proposed resource: _____	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____

Labour Categories and name of the proposed resources	Firm All inclusive hourly rates								Total Cost (A X B) + (C X D) + (E X F) + (G x H)
	Contract Periods								
	A From date of Contract to 2014-03-31	B Total Est. Number of hours	C From 2014-04-01 to 2015-03-31	D Total Est. Number of hours	E From 2015-04-01 to 2016-03-31	F Total Est. Number of hours	G From 2016-04-01 to 2017-03-31	H Total Est. Number of hours	
Labour Category:									
Name of the proposed resource:	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____
Labour Category:									
Name of the proposed resource:	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____ / hour	_____ hours	\$ _____

TOTAL ESTIMATED LABOUR: \$ _____

Items 2 through 7 should be completed if the Bidder's rates in 1. above do not include the following:

If an item is not applicable, write "NA" on the total estimated line.

2. EQUIPMENT: at laid down cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$ _____	
(b)	\$ _____	
(c)	\$ _____	
(d)	\$ _____	
(e)	\$ _____	

TOTAL ESTIMATED EQUIPMENT: \$ _____

3. RENTALS : at actual cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED RENTALS: \$ _____

4. MATERIALS AND SUPPLIES: at laid down cost without markup

Description	Firm unit price	Total est. Qty.
(a)	\$	
(b)	\$	
(c)	\$	
(d)	\$	
(e)	\$	

TOTAL ESTIMATED MATERIALS AND SUPPLIES: \$ _____

5. SUBCONTRACTS: at actual cost without markup

Support for the proposed subcontractor's price is required in the same details as that required for the Bidder's price. The estimated price for subcontracts should include all direct charges and travel & living expenses which would be to the account of the subcontractor.

Details are to be provided on a separate sheet.

The bidder can include the labour cost of the subcontracts in the table of section 1.

TOTAL ESTIMATED SUBCONTRACTS: \$ _____

6. TRAVEL & LIVING: at actual cost without markup but not to exceed the limits of the Treasury Board Travel Directive. With respect to the TB Travel Directive, only the meal, private vehicle and incidental allowances specified in Appendices B, C and D of the TB Travel Directive <http://www.tbs-sct.gc.ca/hr-rh/gtla-vgcl/> and the other provisions of the directive referring to "travellers" rather than those referring to "employees", are applicable.

Details are to be provided on a separate sheet.

TOTAL ESTIMATED TRAVEL & LIVING: \$ _____

7. OTHER DIRECT CHARGES : at actual cost without markup

Description	Price
(a)	

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File No. - N° du dossier

QCN-3-36195

Buyer ID - Id de l'acheteur

qcn015

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CCC No./N° CCC - FMS No/ N° VME

(b)	
(c)	

TOTAL ESTIMATED OTHER DIRECT CHARGES: \$ _____

**TOTAL ESTIMATED COST TO A LIMITATION OF EXPENDITURE for the work done on request, by
means of a task authorization \$ _____
(applicable taxes extra)**

Solicitation No. - N° de l'invitation

W7701-145784/A

Amd. No. - N° de la modif.

File No. - N° du dossier

QCN-3-36195

Buyer ID - Id de l'acheteur

qcn015

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

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CCC No./N° CCC - FMS No/ N° VME

ANNEX C

SECURITY REQUIREMENTS CHECK LIST

The Security Requirements Check List (SRCL) (Annex C) to the bid solicitation package is to be inserted at this point and forms part of this document

ANNEX D

CONTRACTOR DISCLOSURE OF FOREGROUND INFORMATION

Please see reference applicable in your contract to look into Article 1 - Interpretation of 2040 General Conditions to obtain the complete definition of the term Foreground Information and thus to help you to determine the information which must be revealed. <http://sacc.pwgsc.gc.ca/sacc/query-e.jsp>.

The Contractor shall respond to the following questions:

1. Contract No.:
2. What is the descriptive title of the FIP (Foreground Intellectual Property)?
3. Abbreviated description of the FIP and, if applicable, of the different systems and sub-systems.
4. What is or was the objective of the project?
5. Explain how the FIP meets the objective of the project (for example: the advantage of the new solution, what problem did the FIP resolve or what benefits did the FIP deliver).
6. Under which category (ies) would you best describe the FIP and why: Patents, Inventions, Trade Secrets, Copyright, Industrial Designs, Rights in Integrated Circuit Topography, Know-how, Other?
7. Describe the features or aspects of the FIP that are novel, useful and not obvious.
8. Has the FIP been tested or demonstrated? If yes, please summarise the results.
9. Has any publication or disclosure to others been made? If so, to whom, when, where and how?
10. Provide names and addresses of the inventors.
11. Provide an explicit and detailed description of the FIP developed during the contract (Refer to pertinent section of the technical report, if necessary).

Please specify name and position of person approving / authorizing this disclosure. This person is to sign and date the disclosure.

Name:
Title:

Date

(Internal DRDC Valcartier)

Nom

Titre : (Technical authority)

Date

Solicitation No. - N° de l'invitation

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Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

qcn015

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

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ANNEX "E" - DND 626 TASK AUTHORIZATION FORM

The *Form DND 626, Task Authorization* appended to the Solicitation file is to be inserted at this point and forms part of this document.

Annex E

Form DND 626, Task Authorization



**TASK AUTHORIZATION
AUTORISATION DES TÂCHES**

All invoices/progress claims must show the reference Contract and Task numbers. Toutes les factures doivent indiquer les numéros du contrat et de la tâche.		Contract no. – N° du contrat Task no. – N° de la tâche
Amendment no. – N° de la modification	Increase/Decrease – Augmentation/Réduction	Previous value – Valeur précédente
To – À	TO THE CONTRACTOR You are requested to supply the following services in accordance with the terms of the above reference contract. Only services included in the contract shall be supplied against this task. Please advise the undersigned if the completion date cannot be met. Invoices/progress claims shall be prepared in accordance with the instructions set out in the contract.	
Delivery location – Expédiez à	À L'ENTREPRENEUR Vous êtes prié de fournir les services suivants en conformité des termes du contrat mentionné ci-dessus. Seuls les services mentionnés dans le contrat doivent être fournis à l'appui de cette demande. Prière d'aviser le signataire si la livraison ne peut se faire dans les délais prescrits. Les factures doivent être établies selon les instructions énoncées dans le contrat.	
Delivery/Completion date – Date de livraison/d'achèvement	<div style="display: flex; justify-content: space-between;"> <div>_____</div> <div>_____</div> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <div>Date</div> <div>for the Department of National Defence pour le ministère de la Défense nationale</div> </div>	
Contract item no. N° d'article du contrat	Services	Cost Prix
	GST/HST TPS/TVH	
	Total	
<p>APPLICABLE ONLY TO PWGSC CONTRACTS: The Contract Authority signature is required when the total value of the DND 626 exceeds the threshold specified in the contract.</p> <p>NE S'APPLIQUE QU'AUX CONTRATS DE TPSGC : La signature de l'autorité contractante est requise lorsque la valeur totale du formulaire DND 626 est supérieure au seuil précisé dans le contrat.</p> <div style="border-top: 1px solid black; margin-top: 20px; display: flex; justify-content: space-between;"> <div style="width: 40%;"> _____ for the Department of Public Works and Government Services pour le ministère des Travaux publics et services gouvernementaux </div> <div style="width: 60%;"></div> </div>		

Instructions for completing DND 626 - Task Authorization

Contract no.

Enter the PWGSC contract number in full.

Task no.

Enter the sequential Task number.

Amendment no.

Enter the amendment number when the original Task is amended to change the scope or the value.

Increase/Decrease

Enter the increase or decrease total dollar amount including taxes.

Previous value

Enter the previous total dollar amount including taxes.

To

Name of the contractor.

Delivery location

Location where the work will be completed, if other than the contractor's location.

Delivery/Completion date

Completion date for the task.

for the Department of National Defence

Signature of the DND person who has delegated **Authority** for signing DND 626 (level of authority based on the dollar value of the task and the equivalent signing authority in the PAM 1.4). **Note:** the person signing in this block ensures that the work is within the scope of the contract, that sufficient funds remain in the contract to cover this task and that the task is affordable within the Project/Unit budget.

Services

Define the requirement briefly (attach the SOW) and identify the cost of the task using the contractor's quote on the level of effort. The Task must use the basis of payment stipulated in the contract. If there are several basis of payment then list here the one(s) that will apply to the task quote (e.g. milestone payments; per diem rates/labour category hourly rates; travel and living rates; firm price/ceiling price, etc.). All the terms and conditions of the contract apply to this Task Authorization and cannot be ignored or amended for this task. Therefore it is not necessary to restate these general contract terms and conditions on the DND 626 Task form.

Cost

The cost of the Task broken out into the individual costed items in **Services**.

GST/HST

The GST/HST cost as appropriate.

Total

The total cost of the task. The contractor may not exceed this amount without the approval of DND indicated on an amended DND 626. The amendment value may not exceed 50% (or the percentage for amendments established in the contract) of the original value of the task authorization. The total cost of a DND 626, including all amendments, may not exceed the funding limit identified in the contract.

Applicable only to PWGSC contracts

This block only applies to those Task Authorization contracts awarded by PWGSC. The contract will include a specified threshold for DND sole approval of the DND 626 and a percentage for DND to approve amendments to the original DND 626. Tasks that will exceed these thresholds must be passed to the PWGSC Contracting Authority for review and signature prior to authorizing the contractor to begin work.

Note:

Work on the task may not commence prior to the date this form is signed by the DA Authority - for tasks within the DND threshold; and by both DND and PWGSC for those tasks over the DND threshold.

Instructions pour compléter le formulaire DND 626 - Autorisation des tâches

N° du contrat

Inscrivez le numéro du contrat de TPSGC en entier.

N° de la tâche

Inscrivez le numéro de tâche séquentiel.

N° de la modification

Inscrivez le numéro de modification lorsque la tâche originale est modifiée pour en changer la portée.

Augmentation/Réduction

Inscrivez le montant total de l'augmentation ou de la diminution, y compris les taxes.

Valeur précédente

Inscrivez le montant total précédent, y compris les taxes.

À

Nom de l'entrepreneur.

Expédiez à

Endroit où le travail sera effectué, si celui-ci diffère du lieu d'affaires de l'entrepreneur.

Date de livraison/d'achèvement

Date d'achèvement de la tâche.

pour le ministère de la Défense nationale

Signature du représentant du MDN auquel on a délégué le **pouvoir d'approbation** en ce qui a trait à la signature du formulaire DND 626 (niveau d'autorité basé sur la valeur de la tâche et le signataire autorisé équivalent mentionné dans le MAA 1.4). **Nota :** la personne qui signe cette attache de signature confirme que les travaux respectent la portée du contrat, que suffisamment de fonds sont prévus au contrat pour couvrir cette tâche et que le budget alloué à l'unité ou pour le projet le permet.

Services

Définissez brièvement le besoin (joignez l'ET) et établissez le coût de la tâche à l'aide de la soumission de l'entrepreneur selon le niveau de difficulté de celle-ci. Les modalités de paiement stipulées dans le contrat s'appliquent à la tâche. Si plusieurs d'entre elles sont prévues, énumérez ici celle/celles qui s'appliquera/ront à la soumission pour la tâche à accomplir (p.ex. acompte fondé sur les étapes franchies; taux quotidien ou taux horaire établi selon la catégorie de main-d'œuvre; frais de déplacement et de séjour; prix fixe ou prix plafond; etc.). Toutes les modalités du contrat s'appliquent à cette autorisation de tâche et ne peuvent être négligées ou modifiées quant à la tâche en question. Il n'est donc pas nécessaire de répéter ces modalités générales afférentes au contrat sur le formulaire DND 626.

Prix

Mentionnez le coût de la tâche en le répartissant selon les frais afférents à chaque item mentionné dans la rubrique **Services**.

TPS/TVH

Mentionnez le montant de la TPS/TVH, s'il y a lieu.

Total

Mentionnez le coût total de la tâche. L'entrepreneur ne peut dépasser ce montant sans l'approbation du MDN, formulaire DND 626 modifié à l'appui. Le coût de la modification ne peut pas être supérieur à 50 p. 100 du montant initial prévu dans l'autorisation de tâche (ou au pourcentage prévu dans le contrat pour les modifications). Le coût total spécifié dans le formulaire DND 626, y compris toutes les modifications, ne peut dépasser le plafond de financement mentionné dans le contrat.

Ne s'applique qu'aux contrats de TPSGC

Le présent paragraphe s'applique uniquement aux autorisations de tâche accordées par TPSGC. On inscrira dans le formulaire DND 626 un plafond précis qui ne pourra être approuvé que par le MDN et un pourcentage selon lequel le MDN pourra approuver des modifications au formulaire DND 626 original. Les tâches dont le coût dépasse ces plafonds doivent être soumises à l'autorité contractante de TPSGC pour examen et signature avant qu'on autorise l'entrepreneur à débiter les travaux.

Nota :

Les travaux ne peuvent commencer avant la date de signature de ce formulaire par le responsable du MDN, pour les tâches dont le coût est inférieur au plafond établi par le MDN, et par le MDN et TPSGC pour les tâches dont le coût dépasse le plafond établi par le MDN.

Government
of CanadaGouvernement
du Canada

RECEIVED

OCT 07 2013

Contract Number / Numéro du contrat

W7701-145784

Security Classification / Classification de sécurité

Non classifié

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	2. Branch or Directorate / Direction générale ou Direction MDN DRDC/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 Amélioration du Prédicteur de performance de capteur optronique aérien	
5. a) Will the supplier require access to Controlled Goods? Le fournisseur aura-t-il accès à des marchandises contrôlées? <input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
5. b) Will the supplier require access to unclassified military technical data subject to the provisions of the Technical Data Control Regulations? Le fournisseur aura-t-il accès à des données techniques militaires non classifiées qui sont assujetties aux dispositions du Règlement sur le contrôle des données techniques? <input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. Indicate the type of access required / Indiquer le type d'accès requis	
6. a) Will the supplier and its employees require access to PROTECTED and/or CLASSIFIED information or assets? Le fournisseur ainsi que les employés auront-ils accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS? (Specify the level of access using the chart in Question 7. c) (Préciser le niveau d'accès en utilisant le tableau qui se trouve à la question 7. c) <input type="checkbox"/> No / Non <input checked="" type="checkbox"/> Yes / Oui	
6. b) Will the supplier and its employees (e.g. cleaners, maintenance personnel) require access to restricted access areas? No access to PROTECTED and/or CLASSIFIED information or assets is permitted. Le fournisseur et ses employés (p. ex. nettoyeurs, personnel d'entretien) auront-ils accès à des zones d'accès restreintes? L'accès à des renseignements ou à des biens PROTÉGÉS et/ou CLASSIFIÉS n'est pas autorisé. <input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
6. c) Is this a commercial courier or delivery requirement with no overnight storage? S'agit-il d'un contrat de messagerie ou de livraison commerciale sans entreposage de nuit? <input checked="" type="checkbox"/> No / Non <input type="checkbox"/> Yes / Oui	
7. a) Indicate the type of information that the supplier will be required to access / Indiquer le type d'information auquel le fournisseur devra avoir accès	
Canada <input checked="" type="checkbox"/>	NATO / OTAN <input checked="" 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 checked="" type="checkbox"/>	All NATO countries Tous les pays de l'OTAN <input checked="" type="checkbox"/>
Not releasable À ne pas diffuser <input type="checkbox"/>	No release restrictions Aucune restriction relative à la diffusion <input type="checkbox"/>
Restricted to: / Limité à: Specify country(ies): / Préciser le(s) pays: <input type="checkbox"/>	Restricted to: / Limité à: Specify country(ies): / Préciser le(s) pays: no limitation <input type="checkbox"/>
7. c) Level of information / Niveau d'information	
PROTECTED A <input checked="" type="checkbox"/>	NATO UNCLASSIFIED <input checked="" type="checkbox"/>
PROTECTED B <input checked="" type="checkbox"/>	NATO NON CLASSIFIÉ <input type="checkbox"/>
PROTECTED C <input type="checkbox"/>	NATO RESTRICTED <input type="checkbox"/>
CONFIDENTIAL <input type="checkbox"/>	NATO DIFFUSION RESTREINTE <input type="checkbox"/>
SECRET <input type="checkbox"/>	NATO CONFIDENTIAL <input type="checkbox"/>
TOP SECRET <input type="checkbox"/>	NATO CONFIDENTIEL <input type="checkbox"/>
TRÈS SECRET <input type="checkbox"/>	NATO SECRET <input type="checkbox"/>
TOP SECRET (SIGINT) <input type="checkbox"/>	NATO SECRET <input type="checkbox"/>
TRÈS SECRET (SIGINT) <input type="checkbox"/>	COSMIC TOP SECRET <input type="checkbox"/>
	COSMIC TRÈS SECRET <input type="checkbox"/>
	PROTECTED A <input type="checkbox"/>
	PROTÉGÉ A <input type="checkbox"/>
	PROTECTED B <input type="checkbox"/>
	PROTÉGÉ B <input type="checkbox"/>
	PROTECTED C <input type="checkbox"/>
	PROTÉGÉ C <input type="checkbox"/>
	CONFIDENTIAL <input type="checkbox"/>
	CONFIDENTIEL <input type="checkbox"/>
	SECRET <input type="checkbox"/>
	SECRET <input type="checkbox"/>
	TOP SECRET <input type="checkbox"/>
	TRÈS SECRET <input type="checkbox"/>
	TOP SECRET (SIGINT) <input type="checkbox"/>
	TRÈS SECRET (SIGINT) <input type="checkbox"/>



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 / Non ☐ Yes / 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 / Non ☐ Yes / Oui

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

Document Number / Numéro du document :

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

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

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

Special comments:

Commentaires spéciaux : Access to DRDC Valcartier

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 / Non ☒ Yes / Oui
- If Yes, will unscreened personnel be escorted?
Dans l'affirmative, le personnel en question sera-t-il escorté? ☐ No / Non ☒ Yes / 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 / Non ☐ Yes / 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 / Non ☐ Yes / 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 / Non ☐ Yes / 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 / Non ☐ Yes / 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 / Non ☐ Yes / Oui



W7401-145784

Security Classification / Classification de sécurité
Non classifié

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	SECRET	TOP SECRET	NATO RESTRICTED	NATO CONFIDENTIAL	NATO SECRET	COSMIC TOP SECRET	PROTECTED PROTÉGÉ			CONFIDENTIAL	SECRET	TOP SECRET
											CONFIDENTIEL	TRÈS SECRET	NATO DIFFUSION RESTREINTE			
Information / Assets Renseignements / Biens Production	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Media / Support TI	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IT Link / Lien électronique	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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).