



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 Modification of a coherent lidar	
Solicitation No. - N° de l'invitation W7701-166157/A	Date 2016-06-02
Client Reference No. - N° de référence du client W7701-166157	
GETS Reference No. - N° de référence de SEAG PW-\$QCL-038-16773	
File No. - N° de dossier QCL-5-38328 (038)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-06-22	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input checked="" type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Fournier, Annie	Buyer Id - Id de l'acheteur qcl038
Telephone No. - N° de téléphone (418) 649-2775 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: RDDC-R ET D DEFENSE CANADA-VALCARTIER DRDC-DEFENSE R & D CANADA-VALCARTIE 2459 ROUTE DE LA BRAVOURE BÂTISSE 53 QUEBEC Québec G3J 1X5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

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

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

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W7701-166157/A
Client Ref No. – N° de réf. du client
W7701-16-6157

Amd. No. – N° de la modif.
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Buyer ID – id de l'acheteur
qcl 038

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PART 1 - GENERAL INFORMATION

1. Introduction

The bid solicitation document is divided into seven 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 Attachments and the Annexes include the Financial Bid Presentation Sheet, the Mandatory and Point-Rated Technical Criteria, the Statement of Work, the Basis of Payment, and the Contractor Disclosure of Foreground Information.

2. Summary

(a) Title

Coherent Lidar - Modification

(b) Objective

Coherent LIDAR systems are commonly used in the wind turbine industry to measure wind speed and direction. A LIDAR system has been developed for DRDC Valcartier using telecommunications components under contract W7701-145727/001/QCN. In principle, a coherent LIDAR system is more sensitive than a direct-detection LIDAR system. In practice, this has yet to be proven; that is the intent of this contract. The coherent LIDAR system needs to be modified to increase its range and quantify the detectivity of distant targets.

(c) Client Department

The organization for which the services are to be rendered is Defence Research and Development Canada - Valcartier (DRDC - Valcartier).

(d) Period of the Contract

The period of the Contract is six (6) months from Contract award.

(e) **Important Information**

- i. Defence 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.
- ii. Bidders must provide a list of names, or other related information as needed, pursuant to section 01 of Standard Instructions 2003.
- iii. For services requirements, Bidders in receipt of a pension or a lump sum payment must provide the required information as detailed in article 3 of Part 2 of the bid solicitation.
- iv. The requirement is limited to Canadian goods and/or services.
- v. There is no security requirement applicable to this Contract.
- vi. The maximum funding available for the contract resulting from the bid solicitation is \$67,100.00 (Applicable Taxes extra).

3. Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

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

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

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

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

Delete: sixty (60) days

Insert: one hundred 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, at the address below, by the date and time indicated on page 1 of the bid solicitation.

Bid Receiving - PWGSC
1550, D'Estimauville Avenue
Quebec, Quebec
G1J 0C7

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 awarded to FPS, bidders must provide the information required below before contract award. If the answer to the questions and, as applicable the information required have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply with Canada's request and meet the requirement within the prescribed time frame will render the bid non-responsive.

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:

-
- (i) an individual;
 - (ii) an individual who has incorporated;
 - (iii) a partnership made of former public servants; or
 - (iv) 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 Bidder a FPS in receipt of a pension?

Yes ()

No ()

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

- (i) name of former public servant;
- (ii) date of termination of employment or retirement from the Public Service.

By providing this information, Bidders agree that the successful Bidder'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 Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive?

Yes ()

No ()

If so, the Bidder must provide the following information:

- (i) name of former public servant;
- (ii) conditions of the lump sum payment incentive;
- (iii) date of termination of employment;
- (iv) amount of lump sum payment;
- (v) rate of pay on which lump sum payment is based;
- (vi) period of lump sum payment including start date, end date and number of weeks;

(vii) 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. Communications - Solicitation Period

All enquiries must be submitted in writing to the Contracting Authority, preferably via email, at annie.fournier@tpsgc-pwgsc.gc.ca, **no later than seven (7) calendar days** before the bid closing date. Enquiries received after that time may not be answered.

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

5. Applicable Laws

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

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

6. Basis for Canada's Ownership of Intellectual Property

Canada 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 **\$67,100.00** (Applicable Taxes extra, as appropriate). 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 (5 hard copies and 2 soft copies on CD, DVD)

Section II : Financial Bid (1 hard copy)

Section III : Certifications (1 hard copy)

Section IV : Additional Information (1 hard copy)

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

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

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

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

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

- (1) use 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, print double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

1.1 Section I : Technical Bid

- (a) 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 clearly address 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.

- (b) The technical bid consists of the following:

All the information required to demonstrate its conformity with the Mandatory and Point-Rated Technical Criteria described in Sections 1.1.2 and 1.1.3, Part 4, of this document.

1.2 Section II: Financial Bid

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

- (a) Pricing: Bidders must submit a firm all-inclusive hourly rate for each resource proposed.
- (b) A Total Cost to a Ceiling Price, which must not exceed the maximum funding specified in Part 2. The total amount of Applicable Taxes are to be shown separately, if applicable. The information should be provided in accordance with the Financial Bid Presentation Sheet at Attachment 1.
- (c) No travel and living expenses will be paid for services provided within the Quebec Region (including DRDC Valcartier facilities.) Further, Canada will not accept any travel and living expenses for travel between the contractor's place of business and the Quebec region (including DRDC Valcartier facilities). All these cost must be included in the firm all-inclusive hourly rates.
- (d) Prices must be in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

1.3 Section III : Certifications

Bidders must submit the certifications required under Part 5.

1.4 Section IV : Additional Information

Bidders must provide a list of names, or other related information as needed, pursuant to section 01 of Standard Instructions 2003.

For services requirements, Bidders in receipt of a pension or a lump sum payment must provide the required information as detailed in article 3 of Part 2 of the bid solicitation.

Canada requests that bidders provide the following information:

Administrative representative :

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

Technical representative :

Name : _____

Telephone : _____

Facsimile : _____

Email : _____

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 – Bidder's experience

Except where expressly provided otherwise, the experience described in the bid must be the experience of the Bidder itself (which includes the experience of any companies that formed the Bidder by way of a merger but does not include any experience acquired through a purchase of assets or an assignment of contract). The experience of the Bidder's affiliates (i.e. parent, subsidiary or sister corporations), subcontractors, or suppliers will not be considered.

1.1.1 Supporting Information

In the event that the Bidder fails to submit any supporting information pursuant to Request for Proposals (RFP), the Contracting Authority may request it thereafter in writing, including after the closing date of the bid solicitation. It is mandatory that the Bidder provide the supporting information within three (3) business days of the written request or within such period as specified or agreed to by the Contracting Authority in the written notice to the Bidder.

1.1.2 Mandatory Technical Criteria

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

1.1.3 Point-Rated Technical Criteria

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

1.2 Financial Evaluation

1.2.1 Mandatory Financial Criteria

Bidders must present their financial bid in accordance with article 1.2, Section II: **Financial Bid of Part 3** of the Request for Proposals.

1.2.2 Evaluation of Price

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

2. Basis of Selection

2.1 Basis of Selection - Highest Combined Rating of Technical Merit (80%) and Price (20%)

- 1. To be declared responsive, a bid must:
 - (a) comply with all the requirements of the bid solicitation;

- (b) meet all mandatory criteria;
 - (c) obtain the required minimum points specified for each criterion and group of criterion which are subject to point rating; and
 - (d) obtain the required minimum of 108 points overall for the technical evaluation criteria which are subject to point rating. The rating is performed on a scale of 230.
2. Bids not meeting (a) or (b) or (c) or (d) will be declared non-responsive.
 3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 80 % for the technical merit and 20 % for the price.
 4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 80%.
 5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 20%.
 6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
 7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 80/20 ratio of technical merit and price, respectively. The total available points equals 230 and the lowest evaluated price is \$43,280.00.

Basis of Selection - Highest Combined Rating Technical Merit (80%) and Price (20%)

		Bidder		
		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		160/230	184/230	201/230
Bid Evaluated Price		\$43,280.00	\$58,000.00	\$52,300.00
		Calculations		
Calculations	Technical Merit Score	160/230 x 80 = 55.65	184/230 x 80 = 64.00	201/230 x 80 = 69.91
	Pricing Score	43,280.00\$ / 43,280.00\$ x 20 = 20.00	43,280.00\$ / 58,000.00\$ x 20 = 14.92	43,280.00\$ / 52,300.00\$ x 20 = 16.55
Combined Rating		75.65	78.92	86.46
Overall Rating		3rd	2nd	1st

PART 5 - CERTIFICATIONS

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue, whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

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

1. Certifications Required with the Bid

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

1.1 Declaration of Convicted Offences

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

1.2 Additional Certifications Required with the Bid

1.2.1 Canadian Content Certification

This procurement is limited to Canadian services.

The Bidder certifies that:

() the service(s) offered is(are) a Canadian service as defined in paragraph 2 of clause A3050T.

1.2.1.1 *SACC Manual* clause [A3050T](#) (2014-11-27) Canadian Content Definition

2. Certifications Precedent to Contract Award and Additional Information

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

2.1 Integrity Provisions – List of Names

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

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

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

2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_eq/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_eq/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada \(ESDC\) - 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.

2.3 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.

2.4 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.

2.5 Language Capability

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

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File No. – N° du dossier
QCL-5-38328

Buyer ID – id de l'acheteur
qcl 038

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Financial Capability

SACC Manual clause A9033T (2012-07-16), 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)**

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 (2016-04-04), General Conditions - Research & Development, apply to and form part of the Contract.

2.2 Supplemental General Conditions

The following supplemental general conditions apply to and form part of the Contract:

4002 (2010-08-16), Software Development or Modification Services

2.3 SACC Manual Clauses

K3410C (2015-02-25), Canada to Own Intellectual Property Rights in Foreground Information

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

3. Security Requirement

There is no security requirement applicable to this Contract.

4. Term of Contract

4.1 Period of Contract

The period of the Contract is six (6) months from Contract award.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Annie Fournier
Title: Procurement Specialist
Public Works and Government Services Canada
Acquisitions Branch
601-1550, avenue d'Estimauville

Québec (Québec) G1J 0C7
Telephone: 418-649-2775
Facsimile: 418-648-2209
E-mail address: annie.fournier@pwgsc-tpsgc.gc.ca

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

5.2 Technical Authority (to be completed at contract award)

The Technical Authority for the Contract is:

Name:
Title:
Organization:
Address:

Telephone:
Facsimile:
E-mail:

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 Procurement Authority (to be completed at contract award)

The Procurement Authority for the Contract is:

Name:
Title:
Organization:
Address:

Telephone:
Facsimile:
E-mail:

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

5.4 Contractor's Representative

Administrative representative :

Technical representative :

Name : _____	Name : _____
Telephone : _____	Telephone : _____
Facsimile : _____	Facsimile : _____
Email : _____	Email : _____

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 Basis of Payment

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 ceiling price of _____\$ (**price will be inserted at Contract award**). Customs duties are included, and Applicable Taxes are extra.

7.2 Method of Payment

7.2.1 Payments will be done no more than once a month.

7.2.2 Progress payment:

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>), Claim for Progress Payment, 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.

7.3 Limitation of Price

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

7.4 SACC Manual Clauses

A9117C (2007-11-30), T1204 - Direct Request by Customer Department

C0305C (2014-06-26), Cost Submission

7.4.1 Liquidated Damages

1. If the Contractor fails to perform the services within the time specified in the Contract, the Contractor agrees to pay to Canada liquidated damages in the amount of 1% of the total value of the Contract for each calendar day of delay. The total amount of the liquidated damages must not exceed 10 percent of the contract price (total value of the Contract).
2. Canada and the Contractor agree that the amount stated above is their best pre-estimate of the loss to Canada in the event of such a failure, and that it is not intended to be, nor is it to be interpreted as, a penalty.
3. Canada will have the right to hold back, drawback, deduct or set off from and against the amounts of any monies owing at any time by Canada to the Contractor, any liquidated damages owing and unpaid under this section.
4. Nothing in this section must be interpreted as limiting the rights and remedies which Canada may otherwise have under the Contract.

7.5 Discretionary Audit

SACC Manual Clause C0705C (2010-01-11), Discretionary Audit

8. Invoicing Instructions

1. The Contractor must submit a claim for 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. Applicable Taxes 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 Applicable Taxes 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: _____ **(to be completed at contract award)**
Public Works and Government Services Canada
601-1550 D'Estimauville
Québec, QC.
G1J 0C7

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

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

9.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

9.3 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 **Quebec**.

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 supplemental general conditions 4002 (2010-08-16);
- (c) the general conditions 2040 (2016-04-04);
- (d) Annex A, Statement of Work;
- (e) Annex B, Basis of Payment;
- (f) Annex C, Contractor Disclosure of Foreground Information;
- (g) Attachment 1, Financial Bid Presentation Sheet;
- (h) Attachment 2, Mandatory and Point-Rated Technical Criteria;
- (i) the Contractor's bid dated _____. **(to be completed at contract award)**

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 (2016-01-28), 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. Canadian Forces Site Regulations

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

1. **LABOUR:** at firm hourly rates, inclusive of overhead, exclusive of profit, GST/HST extra, FOB destination (for goods), in accordance with the following:

Bidders must submit their financial bid in accordance with 1.2 Section II: Financial Bid, of Part 3 – Bid Preparation Instructions.

If the resource is working under sub-contract, the Bidder **should** indicate the name of the Subcontractor.

Resource Categories	Proposed Resource (complete name)	Firm Hourly Rate	Estimated number of hours
Coherent Detection Expert (min. 1 resource)	1. _____	_____ \$	_____
	2. _____	_____ \$	_____
Software Expert (min. 1 resource)	1. _____	_____ \$	_____
	2. _____	_____ \$	_____
Project Manager (min. resource)	1. _____	_____ \$	_____
	2. _____	_____ \$	_____

TOTAL ESTIMATED LABOUR: _____ \$

2. **MATERIALS, SUPPLIES and EQUIPMENT:** at laid down cost without markup.

Part	Firm Quantity	Cost
Picoscope 6402D	1	_____ \$
Kylia Inc. dual-polarization COH-28 optical hybrid	1	_____ \$
Thorlab balanced detectors	4	_____ \$
PriTel Inc. power amplifier (minimum power 600 mW)	1	_____ \$

TOTAL ESTIMATED MATERIALS, SUPPLIES and EQUIPMENT: _____ \$

3. TRAVEL & LIVING:

- (a) Canada will not accept any travel and living expenses incurred by the Contractor in the performance of the Work, for:
 - (i) services provided within the greater region of Quebec City (including Defence Research and Development Canada - Valcartier); and
 - (ii) any travel between the Contractor's place of business and the greater region of Quebec City (including Defence Research and Development Canada – Valcartier).
- (b) For services to be provided outside the greater region of Quebec City, the Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive (<http://www.njc-cnm.gc.ca/directive/travel-voyage/index-eng.php>), and with the other provisions of the directive referring to “travellers”, rather than those referring to “employees”. The Treasury Board Secretariat’s Special Travel Authorities, http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/tbm_113/statb-eng.asp, also apply.
- (c) Canada will not accept any travel and living expenses incurred by the Contractor as a consequence of any relocation of personnel required to satisfy the terms of this Contract.
- (d) All travel must have prior authorization of the Technical Authority. All payments are subject to government audit.

TOTAL ESTIMATED TRAVEL & LIVING: **0.00\$**

Ceiling Price: _____ \$ (applicable taxes extra)

With the exception of the firm rate(s) and price(s), the amounts shown in the various items specified above are estimates only. Minor changes to these estimates will be accepted for billing purposes as the Work proceeds, provided that these changes have the prior approval of the Technical Authority and provided that the estimated cost does not exceed the aforementioned Ceiling Price.

Solicitation No – N° de l'invitation
W7701-166157/A
Client Ref No. – N° de réf. du client
W7701-16-6157

Amd. No. – N° de la modif.
File No. – N° du dossier
QCL-5-38328

Buyer ID – id de l'acheteur
qcl 038

ATTACHMENT 2

MANDATORY AND POINT-RATED TECHNICAL CRITERIA

The Mandatory and Point-Rated Technical Criteria document (Attachment 2) appended to the bid solicitation package is to be inserted at this point and forms part of this document.

ANNEX A

STATEMENT OF WORK

REQUISITION NUMBER: W7701-166157

1. TITLE

COHERENT LIDAR - MODIFICATION

2. BACKGROUND

Coherent LIDAR systems are commonly used in the wind turbine industry to measure wind speed and direction. A LIDAR system has been developed for DRDC Valcartier using telecommunications components under contract W7701-145727/001/QCN. In principle, a coherent LIDAR system is more sensitive than a direct-detection LIDAR system. In practice, this has yet to be proven; that is the intent of this contract. The coherent LIDAR system needs to be modified to increase its range and quantify the detectivity of distant targets.

3. ACRONYMS

DRDC Defence Research and Development Canada

4. TASKS

4.1 Perform the following modifications:

- 4.1.1 Replace the PicoScope 5000 with a Picoscope 6402D;
- 4.1.2 Use a 64-bit compiler and process each data cycle simultaneously with the transfer and processing of previous cycles;
- 4.1.3 Add distance measurements based on the automated movement of the telescope;
- 4.1.4 Replace the CRx detector with the following components: 1 Kylia Inc. dual-polarization COH-28 optical hybrid and 4 Thorlab (or equivalent) balanced detectors. Incorporate these components into the existing system;
- 4.1.5 Optimize distance calculation based on a subpixel estimation of the maximum correlation and incorporate it into the existing system. A factor of 5x or greater is the goal for optimization;
- 4.1.6 Install a PriTel Inc. power amplifier (minimum power 600 mW);
- 4.1.7 Add speed measurement that uses the frequency analysis of the I and Q signals in homodyne mode to verify that the signal processing will make it possible to measure the speed of objects;
- 4.1.8 Perform a demonstration of the system's operation on DRDC Valcartier premises; and
- 4.1.9 Prepare operating instructions for the modified coherent LIDAR system.

5. DELIVERABLES

5.1 Deliverables for task 4.1

- 5.1.1 Modified coherent LIDAR system including the source code in C and executable for monitoring,

displaying, saving and viewing data.

5.1.2 Demonstration of the system's operation

5.1.3 Operating instructions in electronic format (Word)

6. DELIVERY DATE

Deliverable 5.1: Maximum of 6 months after the contract is awarded.

7. LANGUAGE OF WORK

English or French, at the discretion of the contractor.

8. WORK LOCATION

The work must be performed at the contractor's site.

9. TRAVEL

The contractor is not required to travel.

10. MEETINGS

A kick-off meeting will take place at the contractor's offices.

11. GOVERNMENT SUPPLIED MATERIAL (GSM)

None.

12. GOVERNMENT SUPPLIED EQUIPMENT (GSE)

The existing coherent LIDAR system consists of the following 5 components:

DRDC:1943720000, Coherent LIDAR, Prototype

DRDC:1945380001; Lenovo computer, serial number MU67HH2

DRDC:1945380001; ViewSonic monitor, serial number T9T140120982

DRDC:1945420005; GPC-1850D voltage source, serial number A711921

DRDC:1945440003; AMETEK voltage source, serial number 00924A00126

13. SPECIAL CONSIDERATIONS

None.

ANNEX B

BASIS OF PAYMENT

(to be completed by Canada at Contract award)

1. **LABOUR:** at firm hourly rates, inclusive of overhead, exclusive of profit, GST/HST extra, FOB destination (for goods), in accordance with the following:

Bidders must submit their financial bid in accordance with 1.2 Section II: Financial Bid, of Part 3 – Bid Preparation Instructions.

If the resource is working under sub-contract, the Bidder **should** indicate the name of the Subcontractor.

Resource Categories	Proposed Resource (complete name)	Firm Hourly Rate	Estimated number of hours
Coherent Detection Expert (min. 1 resource)	1. _____	_____ \$	_____
	2. _____	_____ \$	_____
Software Expert (min. 1 resource)	1. _____	_____ \$	_____
	2. _____	_____ \$	_____
Project Manager (min. resource)	1. _____	_____ \$	_____
	2. _____	_____ \$	_____

TOTAL ESTIMATED LABOUR: _____ \$

2. **MATERIALS, SUPPLIES and EQUIPMENT:** at laid down cost without markup.

Part	Firm Quantity	Cost
Picoscope 6402D	1	_____ \$
Kylia Inc. dual-polarization COH-28 optical hybrid	1	_____ \$
Thorlab balanced detectors	4	_____ \$
PriTel Inc. power amplifier (minimum power 600 mW)	1	_____ \$

TOTAL ESTIMATED MATERIALS, SUPPLIES and EQUIPMENT: _____ \$

3. TRAVEL & LIVING:

- (a) Canada will not accept any travel and living expenses incurred by the Contractor in the performance of the Work, for:
- (i) services provided within the greater region of Quebec City (including Defence Research and Development Canada - Valcartier); and
 - (ii) any travel between the Contractor's place of business and the greater region of Quebec City (including Defence Research and Development Canada – Valcartier).
- (b) For services to be provided outside the greater region of Quebec City, the Contractor will be reimbursed its authorized travel and living expenses reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the National Joint Council Travel Directive (<http://www.njc-cnm.gc.ca/directive/travel-voyage/index-eng.php>), and with the other provisions of the directive referring to “travellers”, rather than those referring to “employees”. The Treasury Board Secretariat’s Special Travel Authorities, http://www.tbs-sct.gc.ca/pubs_pol/hrpubs/tbm_113/statb-eng.asp, also apply.
- (c) Canada will not accept any travel and living expenses incurred by the Contractor as a consequence of any relocation of personnel required to satisfy the terms of this Contract.
- (d) All travel must have prior authorization of the Technical Authority. All payments are subject to government audit.

TOTAL ESTIMATED TRAVEL & LIVING: **0.00\$**

Ceiling Price: _____ \$ (applicable taxes extra)

With the exception of the firm rate(s) and price(s), the amounts shown in the various items specified above are estimates only. Minor changes to these estimates will be accepted for billing purposes as the Work proceeds, provided that these changes have the prior approval of the Technical Authority and provided that the estimated cost does not exceed the aforementioned Ceiling Price.

ANNEX C

CONTRACTOR DISCLOSURE OF FOREGROUND INFORMATION

Please refer to **Article 1 - Interpretation of 2040 General Conditions** for the definition of Foreground Information to determine what information must be disclosed.

The Contractor must provide the following information:

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.

Signature _____ Date _____

Name _____ Title _____

(Internal DRDC Valcartier)

Signature _____ Date _____

Name _____ Title (Technical authority) _____

1. STRATEGY, APPROACH, METHODOLOGY	60	30
2. DEMONSTRATION OF KNOWLEDGE	30	15
3. EXPERIENCE AND KNOWLEDGE OF RESOURCES PARTICIPATING IN THE PROJECT	120	54
4. MANAGEMENT – TIME AND TASK ALLOCATION	10	5
5. BIDDER'S EXPERIENCE	10	4
TOTAL	230	108

Evaluation Criteria

A. MANDATORY 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.

1. The bidder must propose at least one (1) resource for each of the following labour category:
- Coherent detection expert;
 - Software expert;
 - Project Manager.

Note: The bidder can propose more than one resource for each category. A given resource can be proposed for more than one labour category.

B. POINT-RATED CRITERIA

1. STRATEGY, APPROACH, METHODOLOGY

- 1.1 - Degree of understanding of context, scope and objectives

Bidders must clearly demonstrate, in their own words, that they thoroughly understand the context, scope and objectives. Bidders should not limit themselves to the description provided in the Statement of Work.

The requirements of this criterion are as follows:

- a brief presentation;
- a concise evaluation of:
 - the needs of the project;
 - the objectives of the proposed work;
 - reasons justifying the proposed work;
- text that is concise; and
- text that is clear and easy to understand.

- 1.2 – Recognition of direct and related problems and ability to resolve them

Bidders must indicate the major difficulties they expect will need to be addressed and how they plan to address them. Issues and challenges related to the field and the nature of the work required should be addressed.

		Rating scale	Max	Min
		36 points: Excellent understanding of context, scope and objectives demonstrated. All of the required elements are provided. The text is concise and demonstrate an understanding that surpasses expectations. 30 points: Very good understanding of context, scope and objectives demonstrated. All of the required elements are provided. The text is concise without confusion. 24 points: Good understanding of context, scope and objectives demonstrated. All of the required elements are provided. The text is relatively concise, without major confusion. 18 points: Average understanding of context, scope and objectives demonstrated. The text is not sufficiently concise or demonstrates major confusion. 6 points: Poor understanding of context, scope and objectives demonstrated. Many required elements are missing. The text is not sufficiently concise and demonstrates major confusion. 0 points: Very poor understanding of context, scope and objectives demonstrated. Most of the required elements are missing. The text is not concise and demonstrates major confusion.	60	30
		24 points: Excellent indication of foreseen difficulties and corresponding coping strategies. All potential issues examined are relevant, and good solutions have been proposed for each issue. 18 points: Very good indication of foreseen difficulties and corresponding coping strategies. Most potential issues examined are relevant and good solutions have been proposed for each issue. 12 points: Good indication of foreseen difficulties and corresponding coping strategies. Most potential issues examined are relevant and good solutions have been proposed for some issues.	24	12

<p>2. DEMONSTRATION OF KNOWLEDGE</p> <p>2.1 - Expertise in coherent optical telecommunications (COT) and its use in LIDAR technology</p> <p>Bidders must demonstrate their knowledge of coherent optical technology in their own words in the specific context of the project.</p>	<p>6 points: Weak indication of foreseen difficulties and corresponding coping strategies. Some potential issues examined are relevant and a few good solutions have been proposed for some issues. 0 points: Very poor indication of foreseen difficulties and corresponding coping strategies. Few potential issues examined are relevant and poor solutions have been proposed.</p> <p>30 points: Excellent knowledge demonstrated. All aspects are clearly discussed in the specific context of the contract. 25 points: Very good knowledge demonstrated. Almost all aspects are clearly discussed in the specific context of the contract. 20 points: Good knowledge demonstrated. Most aspects are clearly discussed in the specific context of the contract. 15 points: Average knowledge demonstrated. Some aspects are clearly discussed in the specific context of the contract. 10 points: Poor knowledge demonstrated. Few aspects are clearly discussed in the specific context of the contract. 0 points: Very poor knowledge demonstrated. Almost no aspects of COT are clearly discussed in the specific context of the contract.</p>	<p>30</p> <p>15</p>
<p>3. EXPERIENCE AND KNOWLEDGE OF RESOURCES PARTICIPATING IN THE PROJECT</p> <p>More than one resource can be proposed per category. In this case, each resource will be evaluated individually. The overall scores obtained by each resource in the given category will be added and then divided by the number of resources available to obtain an average. The average will be the rating assigned to the bidder. <u>If a proposed resource for a given category does not obtain the required minimum score for any of the criteria, this resource will not be considered for the Contract as well as for the calculations of the cost of labour for the given category.</u></p>		<p>120</p> <p>54</p>
<p>3.1 – Coherent detection expert</p> <p>Bidders must demonstrate the scientific competence of the expert by describing the contexts in which that competence was gained. "Context" refers to the conditions under which specific competence was gained, such as professional experience, education and training.</p> <p>Details related to professional experience should include the nature of the expert's position, the context in which they were performed, the specific tasks completed, the specific expertise acquired and the duration. Details related to academic education and training should include the name, duration and location of the education or training, the official title received, and a description of the specific knowledge acquired.</p> <p>The subject-matter expert must hold a degree from a recognized Canadian university, or the equivalent, as established by a recognized* Canadian academic credentials assessment service if obtained outside Canada.</p> <p>* The list of recognized organizations can be found under the Canadian Information Centre for International Credentials website: http://www.cicic.ca/415/credential-assessment-services.canada</p>	<p>a) Level of education 15 points: PhD in physics, physical engineering or electrical engineering 10 points: Master's degree in physics, physical engineering or electrical engineering 5 points: Bachelor's degree in physics, physical engineering or electrical engineering 0 points: Other</p> <p>b) Professional experience directly related to coherent detection 25 points: More than 60 months of experience 20 points: Between 48 and 60 months of experience 15 points: Between 30 and 42 months of experience 10 points: Between 12 and 29 months of experience 5 points: Between 3 and 11 months of experience 0 points: Less than 6 months of experience</p> <p>c) Experience related to optical telecommunications 30 points: Has modelled or directed the modelling of coherent LIDAR using optical telecommunications components 20 points: Has used a coherent LIDAR model to verify the performance of a coherent LIDAR system built with telecommunications components 10 points: Has modelled or directed the modelling of coherent optical telecommunications components 0 points: None of the above mentioned</p>	<p>70</p> <p>40</p>

<p>3.2 – Software expert</p> <p>Bidders must demonstrate the technical competence of the software expert by describing the context in which that competence was gained. Details related to professional experience should include the nature of the expert's position, the context in which they were performed, the specific tasks completed and the specific expertise acquired.</p>	<p>40 points: Has designed software (data acquisition, analysis and display) for a coherent LIDAR system 20 points: Has designed software (data acquisition, analysis and display) for a LIDAR system 10 points: Has designed software (data acquisition and display) for a LIDAR system 0 points: None of the above mentioned</p>	<p>40</p> <p>10</p>
<p>3.3 – Project manager</p> <p>Bidders must demonstrate the proposed project manager's experience in managing scientific projects that include designing software.</p> <p>The demonstration should include the nature and duration of the project manager's duties, the context in which they were performed, the specific tasks completed and the specific expertise acquired. Only completed projects with a budget averaging \$10 000 or more and longer than 3 months are to be considered. A task authorization meeting these conditions is considered a project.</p>	<p>10 points: 60 months or more of experience 8 points: Between 48 and 59 months of experience 6 points: Between 36 and 47 months of experience 4 points: Between 24 and 35 months of experience 2 points: Between 6 and 23 months of experience 0 points: Less than 6 months of experience</p>	<p>10</p> <p>4</p>
<p>4. MANAGEMENT – TIME AND TASK ALLOCATION</p>		
<p>4.1 – Time and task allocation</p> <p>Bidders must clearly describe how they will allocate hours of work to each task of the project: for example, the planned number of hours that each resource will dedicate to the task. Time and task allocation must be done correctly in order to meet the objectives of the project.</p>	<p>10 points: Excellent allocation effort; documentation of the allocation effort is complete, clear and detailed; the level of effort for all tasks is appropriate and realistic. 7 points: Very good allocation effort; documentation of the allocation effort is complete; the level of effort for most tasks is appropriate and realistic 5 points: Good allocation effort; documentation of the allocation effort is satisfactory; the level of effort for most tasks is acceptable and realistic 0 points: Documentation of the allocation effort is unclear; the level of effort for tasks is mostly realistic with some deficiencies</p>	<p>10</p> <p>5</p>
<p>5. BIDDER'S EXPERIENCE</p>		
<p>5.1 – Bidders must indicate the number of completed scientific projects that include designing software with an annual budget of at least \$25 000 that they have completed over the past 5 years.</p> <p>This should include the nature and duration of the project, the context, the specific tasks completed and the specific expertise acquired.</p>	<p>10 points: At least 5 projects 8 points: 3 or 4 projects 6 points: 2 projects 4 points: 1 project 0 points: 0 projects</p>	<p>10</p> <p>4</p>
<p>TOTAL</p>		<p>230</p> <p>108</p>