



RETURN BIDS TO: RETOURNER LES SUBMISSION À :
 Parks Canada Agency Bid Receiving Unit
 National Contracting Services Unit
 Suite 1300, 635 – 8th Avenue S.W.
 Calgary, AB T2P 3M3
 Bid Fax: 1-866-246-6893

REQUEST FOR QUOTATION

DEMANDE DE PRIX

Quotation to: Parks Canada Agency
 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 or attached hereto, the goods, services and construction listed herein or on any attached sheets at the price(s) set out therefor.

Prix aux : l'Agence Parcs 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 et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Issuing Office - Bureau de distribution :
 Parks Canada Agency
 National Contracting Services Unit
 Suite 1300, 635 – 8th Avenue S.W.
 Calgary, AB T2P 3M3

Title - Sujet LiDAR Data Acquisition and Mapping, Southern and eastern Gwail Haanas, BC		
Solicitation No. - N° de l'invitation 5P420-17-5165/A	Date July 12, 2017	
Client Reference No. - N° de référence du client n/a		
GETS Reference No. N° de référence de SEAG PW-17-00786588		
Solicitation Closes - L'invitation prend fin At - à : 02:00 PM On - le : August 02, 2017		Time Zone - Fuseau horaire MDT/MST HAR/HNR
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 Joanne S. Cuthbert		
Telephone No. - N° de telephone (403) 292-4558	Fax No. -N° de télécopieur 1-866-246-6893	Email Address - Courriel joanne.cuthbert@pc.gc.ca
Destination of Goods, Services, and Construction - Destination des biens, services, et construction See Herein		

TO BE COMPLETED BY THE BIDDER - À REMPLIR PAR LE SOUMISSIONNAIRE

Vendor/ Firm Name - Raison sociale et adresse du fournisseur/ de l'entrepreneur	
Address - Adresse	
Telephone No. - N° de telephone	Fax No. - N° de télécopieur
Name of person authorized to sign on behalf of the Vendor/ Firm (type or print) - Nom de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	3
1.1 SECURITY REQUIREMENTS	3
1.2 STATEMENT OF WORK.....	3
1.3 DEBRIEFINGS.....	3
1.4 TRADE AGREEMENTS	3
PART 2 - BIDDER INSTRUCTIONS	4
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	4
2.2 SUBMISSION OF BIDS	4
2.3 FORMER PUBLIC SERVANT	4
2.4 ENQUIRIES - BID SOLICITATION	5
2.5 APPLICABLE LAWS	6
PART 3 - BID PREPARATION INSTRUCTIONS	7
3.1 BID PREPARATION INSTRUCTIONS	7
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	8
4.1 EVALUATION PROCEDURES	8
4.2 BASIS OF SELECTION	8
PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION	9
5.1 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	9
PART 6 - RESULTING CONTRACT CLAUSES	10
6.1 SECURITY REQUIREMENTS	10
6.2 STATEMENT OF WORK.....	10
6.3 STANDARD CLAUSES AND CONDITIONS	10
6.4 TERM OF CONTRACT	10
6.5 AUTHORITIES	10
6.6 PROACTIVE DISCLOSURE OF CONTRACTS WITH FORMER PUBLIC SERVANTS.....	11
6.7 PAYMENT	12
6.8 INVOICING INSTRUCTIONS	12
6.9 DIRECT DEPOSIT.....	12
6.10 CERTIFICATIONS	12
6.11 APPLICABLE LAWS	13
6.12 PRIORITY OF DOCUMENTS	13
6.13 WORK SITE ACCESS	13
6.14 GOVERNMENT SITE REGULATIONS.....	13
6.15 GOVERNMENT PROPERTY	13
6.16 INSPECTION AND ACCEPTANCE	13
6.17 INSURANCE – NO SPECIFIC REQUIREMENT.....	13
6.18 OPTIONAL GOODS AND/OR SERVICES	13
ANNEX "A" - STATEMENT OF WORK	15
ANNEX "B" - BASIS OF PAYMENT	20
ANNEX "C"	22
ATTESTATION AND PROOF OF COMPLIANCE WITH OCCUPATIONAL HEALTH AND SAFETY (OHS) 22	
ANNEX "D" - INTEGRITY PROVISIONS – LIST OF NAMES FORM	24

Solicitation No. - N° de l'invitation
5P420-17-5165/A

Amd. No. - N° de la modif.
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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement associated with the requirement.

1.2 Statement of Work

The Work to be performed is detailed under Article 2 of the resulting contract clauses.

1.3 Debriefings

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

1.4 Trade Agreements

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

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

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

The [2003](#) (2017-04-27) Standard Instructions – Goods or Services – Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

All reference to the Minister of Public Works and Government Services Canada shall be deleted and replaced with the Minister of the Environment and Climate Change for the purposes of the Parks Canada Agency. All reference to the Department of Public Works and Government Services Canada shall be deleted and replaced with the Parks Canada Agency.

2.2 Submission of Bids

Bids must be submitted only to Parks Canada Agency (PCA) 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 email to PCA will not be accepted.

2.3 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 FPSs, 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.

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 Bidder a FPS in receipt of a pension?	Yes () No ()
--	----------------

If so, the Bidder must provide the following information, for all FPSs 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, 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:

- (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.

2.4 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

Solicitation No. - N° de l'invitation
5P420-17-5165/A

Amd. No. - N° de la modif.
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be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

2.5 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders 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: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

3.1.1 Exchange Rate Fluctuation

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

Section II: Certifications

Bidders must submit the certifications required under Part 5.

Canada requests that Bidders provide the former public servant information at Article 2.3 with their bid.

Solicitation No. - N° de l'invitation
5P420-17-5165/A

Amd. No. - N° de la modif.
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LiDAR Data Acquisition and Mapping, Southern and eastern Gwaii Haanas, BC

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Financial Evaluation

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

4.2 Basis of Selection

A bid must comply with all requirements of the bid solicitation to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Precedent to Contract Award and Additional Information

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

5.1.1 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.

Bidders may use the attached Integrity Provisions – List of Names form under **Annex "D"**.

5.1.2 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 [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.

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

There is no security requirement applicable to this Contract.

6.2 Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at **Annex "A"**.

6.3 Standard Clauses and Conditions

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

6.3.1 General Conditions

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

All reference to the Minister of Public Works and Government Services Canada shall be deleted and replaced with the Minister of the Environment and Climate Change for the purposes of the Parks Canada Agency. All reference to the Department of Public Works and Government Services Canada shall be deleted and replaced with the Parks Canada Agency.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of contract to November 03, 2017 inclusive.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Joanne S. Cuthbert

Parks Canada Agency
National Contracting Services Unit
Suite #1300, 635 – 8 Avenue S.W.
Calgary, AB T2P 3M3

Telephone: (403) 292-4558
Facsimile: 1-866-246-6893
E-mail address: joanne.cuthbert@pc.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.

Solicitation No. - N° de l'invitation
5P420-17-5165/A

Amd. No. - N° de la modif.
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Client Ref. No. - N° de réf. du client
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Title - Sujet
LiDAR Data Acquisition and Mapping, Southern and eastern Gwaii Haanas, BC

6.5.2 Project Authority

The Project Authority for the Contract is:

***** To be determined at contract award *****

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

6.5.3 Contractor's Representative

The Contractor's Representative for the Contract is:

Representative's Name:		
Title:		
Vendor/ Firm Name:		
Address:		
City:	Province/ Territory:	Postal Code:
Telephone:		Facsimile:
Email Address:		
Procurement Business Number or Goods and Services Tax Number:		

Instruction on how to obtain a Procurement Business Number (PBN)

Canadian Bidders are requested to have a Procurement Business Number (PBN) before Contract award. Bidders may register for a PBN in the Supplier Registration Information service on line at the [Business Access Canada Website](https://buyandsell.gc.ca/for-businesses/selling-to-the-government-of-canada/register-as-a-supplier) (https://buyandsell.gc.ca/for-businesses/selling-to-the-government-of-canada/register-as-a-supplier). For non- Internet registration, Bidders may contact the Business Access Canada InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.

6.6 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.

6.7 Payment

6.7.1 Basis of Payment – Firm Lot Price

In consideration of the Contractor satisfactorily completing its obligations under the Contract, the Contractor will be paid a firm price, for a cost of \$ *(Inserted at contract award)*. Customs duties are included and Applicable Taxes are extra.

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

6.7.3 Single Payment

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

6.8 Invoicing Instructions

6.8.1 The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

Each invoice must be supported by:

- a. a copy of the release document and any other documents as specified in the Contract;

6.8.2 Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.9 Direct Deposit

In April 2012, the Government of Canada announced that direct deposit would be replacing cheques as the primary payment method for the federal payments issued by the Receiver General for Canada by April 2016. If the bidder is not set up for direct deposit, the Direct Deposit enrollment form will be required to be submitted to the Contracting Authority upon receipt of a Purchase Order or Contract.

Additional information on this Government of Canada initiative is available at:

<http://www.directdeposit.gc.ca>

6.10 Certifications

6.10.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, 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.

6.11 Applicable Laws

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

6.12 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 [2010C](#) (2016-04-04), General Conditions – Services (Medium Complexity);
- (c) Annex “A”, Statement of Work;
- (d) Annex “B”, Basis of Payment;
- (e) Annex “C”, Attestation and Proof of Compliance with Occupational Health and Safety (OHS);
- (f) the Contractor's bid dated (*inserted at contract award*).

6.13 Work Site Access

Authorized representatives of Canada must have access to any site where any part of the Work is being carried out at any time during working hours to make examinations and such tests of the Work as they may think fit.

6.14 Government Site Regulations

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

6.15 Government Property

Government Property must be used only for the purpose of performing the Contract.

6.16 Inspection and Acceptance

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

6.17 Insurance – No Specific Requirement

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

6.18 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

Solicitation No. - N° de l'invitation
5P420-17-5165/A

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LiDAR Data Acquisition and Mapping, Southern and eastern Gwaii Haanas, BC

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

ANNEX "A" - STATEMENT OF WORK

1.0 Objective.

The objective is to obtain continuous LiDAR mapping from coastal zone to hilltop for the southern part of the Gwaii Haanas archipelago, with a minimum average point density of 8 points per square metre.

2.0 Background.

Gwaii Haanas is a protected area that extends from mountain top to sea bottom. This area is managed to protect and preserve natural and cultural heritage, and to provide appropriate visitor activities. Activities in support of management include research, restoration, inventory and monitoring, public communication, and operations. Accurate and reliable maps and charts are a key component to all these activities. The current terrestrial topographic base map is almost 30 years old and is based on 75-metre data spacing. Basemap features such as watershed boundaries, streams and the coastline are no longer accurate enough to support the needs of modern research, inventory and management. LiDAR mapping will provide data with a ground spacing of up to 8 points per square metre. This will allow for topographic mapping capable of supporting current and future needs of management, monitoring and research. Among the applications that LiDAR data will support are:

- a generic high resolution topographic base;
- a more complete and accurate inventory of hydrologic and watershed features;
- ecosystem inventory, analysis, and research and restoration activities;
- change detection (e.g., canopy structure, shoreline erosion, mass-movement, geomorphological processes);
- identification of cultural features and assistance in mapping of archaeological sites; and
- emergency preparedness and disaster planning.

3.0 Scope

The contractor will be responsible for the following:

CONTRACT:

Zone 1:

The area of intended LiDAR mapping is Gwaii Haanas (Figure 1). Zone 1 consisting of **20,573 hectares, coverage** must be continuous from south to north, the timeframe for this work will be late spring to early fall, 2017. This area is **not** intended to dictate the choice of most efficient flight lines (i.e. the contractor should consider what area(s) can be covered for the proposal cost, then design the most efficient flight lines). Data acquisition will be on an opportunistic basis, according to suitable weather conditions to be determined by the Contractor.

OPTIONAL SERVICES:

The Contractor grants to Parks Canada the irrevocable option to acquire the same services described herein under the same conditions for the following options.

The optional services may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

In order of priority:

Zone 2:

The area of intended LiDAR mapping is Gwaii Haanas (Figure 1). Zone 2 consisting of 55,077 **hectares** coverage must be continuous from south to north starting outside the border of completed Zone 1, the timeframe for this work will be late spring to early fall, 2017. This area is **not** intended to dictate the choice of most efficient flight lines (i.e. the contractor should consider what area(s) can be covered for the proposal cost, then design the most efficient flight lines). Data acquisition will be on an opportunistic basis, according to suitable weather conditions to be determined by the Contractor.

Zone 3:

The area of intended LiDAR mapping is Gwaii Haanas (Figure 1). Zone 3 consisting of 59,250 **hectares** coverage must be continuous from south to north starting outside the border of completed Zone 1 and 2, the timeframe for this work will be late spring to early fall, 2017. This area is **not** intended to dictate the choice of most efficient flight lines (i.e. the contractor should consider what area(s) can be covered for the proposal cost, then design the most efficient flight lines). Data acquisition will be on an opportunistic basis, according to suitable weather conditions to be determined by the Contractor.

3.1 Product Specifications

The Contractor will provide the following specifications:

1. Nominal point spacing of 8 points per square metre, or greater.
2. Data voids are allowed where water bodies are present.
3. There must be at least 10% overlap in flight lines to ensure continuous coverage.
4. The LiDAR instrument must be capable of multiple discrete returns with a minimum of 4 potential returns for each outbound laser pulse.
5. Map projection and datum:
 - Horizontal Datum: NAD83 (CSRS)
 - Vertical Datum: Orthometric heights in CGVD2013, based on mean sea level.
 - Projection: BC Albers
6. Spatial Accuracy:
 - Vertical Accuracy \leq +/- 30cm at 95% confidence level
 - Horizontal Accuracy \leq +/- 80cm at 95% confidence level
 -

Ground control used to support these accuracies will be in open terrain with less than 20% slope. If MASCOT control points are to be used, then they must have been verified in the last 5 years by modern dual frequency GPS techniques.

For additional details and on accuracy standards and specifications refer to the 2014 American Society for Photogrammetry and Remote Sensing (ASPRS) Positional Accuracy Standards for Digital Geospatial Data.

3.2 Deliverables

1. Classified LAS files tiled at 1 km² tiles. Classes include ground and non-ground only. LAS files will contain all information regarding their recorded return number. Nominal point spacing will be at ≥ 8 points per metre.
2. Digital Surface Model (DSM) in Geo-Tiff or Arcgrid format
3. Bare Earth DEM in Geo-Tiff or Arcgrid format
4. Intensity Image in Geo-Tiff or Arcgrid format
5. 1 m contours in shapefile or ArcGIS File Geodatabase form
6. Project report outlining equipment, procedures and technical specifications, dates, personnel, and any problems encountered. The report must contain detail on the following:
 - 6.1. Available LiDAR sensor specifications, including: manufacturer, model, field of view, swath width at altitude; Laser dispersion at altitude; range, pulse, repetition and scanner frequency.
 - 6.2. System calibration procedures.
 - 6.3. LiDAR acquisition specifications including flight altitude, flying speed, scan rate and field of view, line spacing and overlap.
 - 6.4. Report on estimated point density and spacing characteristics.
 - 6.5. Reports on absolute horizontal accuracy, absolute vertical accuracy, and relative vertical accuracy.
 - 6.6. Documentation of methods of survey control using ground control points, including access to survey control data used or derived in the project.
7. All deliverables submitted to Gwaii Haanas by November 3 2017.

Note: LiDAR data includes all relevant project reports, point clouds, and derived data products.

Ownership of Intellectual Property

Parks Canada Agency will own the intellectual property rights.

3.3 Contractor's Responsibilities

- Provision of all personnel and materials to complete this contract.
- Verification of data following flight.
- No work to be conducted outside of this contract unless approved by the Parks Canada Representative in writing.
- Coordination with Gwaii Haanas to ensure that fieldwork required for ground control is completed before September 30, 2017.

4.0 Parks Canada's Responsibilities

- Review of final data before acceptance.
- Provision of a visitor orientation to the contractor on short notice.
- Approval in writing of accepted work performed outside of this contract.
- Final approval of all work.

Solicitation No. - N° de l'invitation
5P420-17-5165/A

Amd. No. - N° de la modif.
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Contracting Authority - Autorité contractante
Joanne S. Cuthbert

Client Ref. No. - N° de réf. du client
n/a

Title - Sujet
LiDAR Data Acquisition and Mapping, Southern and eastern Gwaii Haanas, BC

- Provision of transportation for contractor personnel to locations not accessible by road and that are required for ground control, or provision to the contractor of acceptable ground control from another source. Transportation is subject to the availability of Gwaii Haanas personnel and vessels.
- Provide a shapefile of the seaward boundary of the areas of interest. This boundary will be based on the CHS Lower Low Water Level, extended 5 metres seaward.

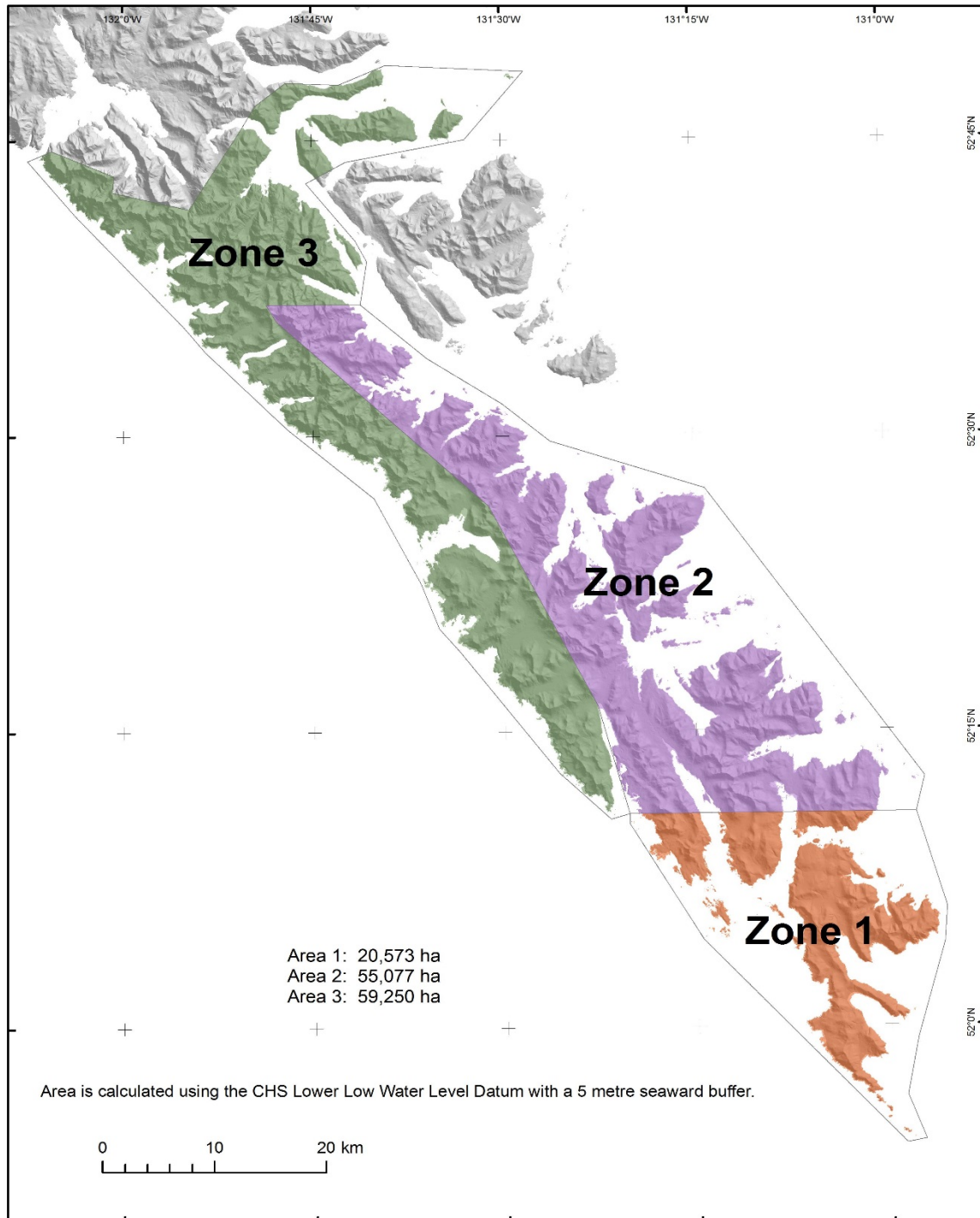


Figure 1. Priority areas for LiDAR mapping in southern Gwaii Haanas.

ANNEX "B" - BASIS OF PAYMENT

Financial Bid Submission Requirements

- (a) Bidders must submit their financial bid in accordance with the Basis of Payment.
- (b) All prices are in Canadian dollars, FOB destination.
- (c) Customs duties are included and Applicable Taxes are extra.
- (d) Total Combined Evaluated Estimated Bid Price Calculation:

For the purposes of evaluation, the evaluated bid price will be comprised of the combined total of Table 1 and Table 2.

TABLE 1. Total Firm Lot Price (excluding applicable tax)

In consideration of the Contractor completing all of its obligations under the Contract, the Contractor will be paid a firm lot price in Canadian funds for all costs, including but not limited to all professional, technical, and administrative fees and costs; travel/accommodation to and from Gwaii Haanas National Park Reserve, BC as required to fulfill the requirements of **Annex A – Statement of Work as defined in relation to Zone 1**.

Item No.	Description	Total Firm Lot Bid Price(s)
A.	Satisfactory completion of the Requirements at Annex "A." – Statement of Work in relation to Zone 1 (20,573 hectares) .	\$

TABLE 2. Optional Services - Firm Unit Price(s) (excluding applicable tax)

In consideration of the Contractor completing all of its obligations under the Contract, the Contractor will be paid a firm lot price in Canadian funds for all costs, including but not limited to all professional, technical, and administrative fees and costs; travel/accommodation to and from Gwaii Haanas National Park Reserve, BC as required to fulfill the requirements of **Annex A – Statement of Work as defined in relation to Zone(s) 2 and 3**.

Note: estimated values do not guarantee any commitment of Work by PCA. Firm unit prices will be prorated based on actual quantities undertaken, if any.

Item No.	Description	Unit of Measurement	Estimated Quantity (A)	Firm Unit Bid Price(s) (B)	Extended Estimated Firm Unit Bid Price(s) (A x B)
B.	Zone 2: Satisfactory completion of the	Per Hectare(s)	55,077	\$	\$

	Requirements at Annex "A." – Statement of Work				
C.	Zone 3: Satisfactory completion of the Requirements at Annex "A." – Statement of Work	Per Hectare(s)	59,250	\$	\$
D.	Combined Estimated Total Firm Unit Bid Price(s)				\$

Total Combined Evaluated Estimated Bid Price Calculation

In conducting its evaluation of the bids, Canada may, but has no obligation to correct any error in the extended pricing of bids by using unit pricing and any error in quantities in bids to reflect the quantities stated in the bid solicitation. In the case of error in the extension of prices, the unit price will govern.

Item No.	Description	Total Combined Estimated Bid Price(s)
A	Table 1: Total Firm Lot Bid Price	\$
D	Table 2: Total Estimated Firm Unit Bid Price(s)	\$
E	Total Combined Evaluated Estimated Bid Price (Items A + D) (excluding applicable tax)	\$

Notes:

- (a) Unidentified costs will not be allowable under the Contract unless there is a change to the work requirements and addressed by a contract amendment issued by the Contracting Authority;
- (b) Additional payment terms and conditions will not apply to the contract; and
- (c) Customs duties are included and Applicable Taxes are extra.

ANNEX "C"

ATTESTATION AND PROOF OF COMPLIANCE WITH OCCUPATIONAL HEALTH AND SAFETY (OHS)

The following form must be completed and signed prior to commencing work on Parks Canada Sites.

Submission of this completed form, satisfactory to Parks Canada, is a condition of gaining access to the work place.

Parks Canada recognizes that federal OHS legislation places certain specific responsibilities upon Parks Canada as owner of the work place. In order to meet those responsibilities, Parks Canada is implementing a contractor safety regime that will ensure that roles and responsibilities assigned under Part II of the *Canada Labour Code* and the *Canada Occupational Health and Safety Regulations* are implemented and observed when involving contractor(s) to undertake works in Parks Canada work places.

Parks Canada Responsible Authority/Project Lead	Address	Contact Information
Project Manager/Contracting Authority		
Prime Contractor		
Subcontractor(s) (add additional fields as required)		

Location of Work

General Description of Work to be Completed
--

Solicitation No. - N° de l'invitation
5P420-17-5165/A

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LiDAR Data Acquisition and Mapping, Southern and eastern Gwaii Haanas, BC

Mark "Yes" where applicable.

	A meeting has been held to discuss hazards and access to the work place and all known and foreseeable hazards have been identified to the contractor and/or subcontractor(s)
	The contractor and/or its subcontractor(s) will comply with all federal and provincial/territorial legislation and Parks Canada's policies and procedures, regarding occupational health and safety.
	The contractor and/or its subcontractor(s) will provide all prescribed safety materials, equipment, devices and clothing.
	The contractor and/or its subcontractor(s) will ensure that its employees are familiar with and use all prescribed safety materials, equipment, devices and clothing at all times.
	The contractor and/or its subcontractor(s) will ensure that its activities do not endanger the health and safety of Parks Canada employees.
	The contractor and/or its subcontractor(s) has inspected the site and has carried out a hazard assessment and has put in place a health and safety plan and informed its employees accordingly, prior to the commencement of the work.
	Where a contractor and/or its subcontractor(s) will be storing, handling or using hazardous substances in the work place, it will place warning signs at access points warning persons of the presence of the substances and any precautions to be taken to prevent or reduce any hazard of injury or death.
	The contractor and/or its subcontractor(s) will ensure that its employees are instructed in respect of any emergency procedures applicable to the site.

I, _____ (contractor), certify that I have read, understood and attest that my firm, employees and all sub-contractors will comply with the requirements set out in this document and the terms and conditions of the contract.

Name

Signature

Date

Solicitation No. - N° de l'invitation
5P420-17-5165/A

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ANNEX "D" - INTEGRITY PROVISIONS – LIST OF NAMES FORM

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.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

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

1. _____
2. _____
3. _____
4. _____
5. _____

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

Indicate Bidder's business structure:

(Society, firm or partnership)
