



**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**

**1550 D'Estimauville Avenue
1550, Avenue d'Estimauville
Québec
Québec
G1J 0C7**

FAX pour soumissions: (418) 648-2209

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Unmanned Aerial Vehicle (UAV)	
Solicitation No. - N° de l'invitation F3757-160507/A	Date 2016-08-17
Client Reference No. - N° de référence du client F3757-160507	
GETS Reference No. - N° de référence de SEAG PW-\$BAL-001-16851	
File No. - N° de dossier BAP-6-39106 (001)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-09-12	Time Zone Fuseau horaire Heure Avancée de l'Est HAE
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Tremblay, Marial	Buyer Id - Id de l'acheteur bal001
Telephone No. - N° de téléphone (418) 677-4000 (4159)	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Fisheries and Oceans / Pêches et Océans Canada Direction des sciences océaniques et de l'environnement 850 de la mer, CP 1000 Mont-Joli (Québec) G5H 3Z4	

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
BFC Bagotville, CP 380
CFB Bagotville, PO Box 380
Bâtiment 62, local 112
Building 62, Room 112
Alouette
Québec
GOV1A0

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

UNMANNED AERIAL VEHICLE (UAV)

FISHERIES AND OCEANS CANADA MONT-JOIL, QUEBEC, CANADA

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 6.1 of the resulting contract clauses.

1.2 Debriefings

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

1.3 Trade Agreements

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

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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>) 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.

2.2 Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

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

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

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2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than ten (10) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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

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 provide their bid in separately bound sections as follows:

Section I: Technical Bid (1 hard copy)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

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

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

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

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

Section I: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

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

3.1.1 Exchange Rate Fluctuation Risk Mitigation

1. The Bidder may request Canada to assume the risks and benefits of exchange rate fluctuations. If the Bidder claims for an exchange rate adjustment, this request must be clearly indicated in the bid at time of bidding. The Bidder must submit form PWGSC-TPSGC 450, <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/450.pdf> Claim for Exchange Rate Adjustments with its bid, indicating the Foreign Currency Component (FCC) in Canadian dollars for each line item for which an exchange rate adjustment is required.
2. The FCC is defined as the portion of the price or rate that will be directly affected by exchange rate fluctuations. The FCC should include all related taxes, duties and other costs paid by the Bidder and which are to be included in the adjustment amount.
3. The total price paid by Canada on each invoice will be adjusted at the time of payment, based on the FCC and the exchange rate fluctuation provision in the contract. The exchange rate adjustment will only be applied where the exchange rate fluctuation is greater than 2% (increase or decrease).
4. At time of bidding, the Bidder must complete columns (1) to (4) on form PWGSC-TPSGC 450, for each line item where they want to invoke the exchange rate fluctuation provision. Where bids are evaluated in Canadian dollars, the dollar values provided in column (3) should also be in Canadian dollars, so that the adjustment amount is in the same currency as the payment.
5. Alternate rates or calculations proposed by the Bidder will not be accepted for the purposes of this exchange rate fluctuation provision.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

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

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

Mandatory Technical Criteria	
Although bidders must propose products meeting all mandatory specifications and components outlined in Annex "A"; at the bid closing date, bids will be evaluated on following preselected mandatory specifications and components:	
The Unmanned Autonomous Vehicle (UAV):	
1.1	Must be able to Vertical Take-off and landing;
1.4	Must be able to flight with endurance of 40 minutes or more under calm wind conditions, with a payload of at least 200g;
1.7	Must have return to base if communication problems, low battery levels or environmental conditions are encountered.
2.1	Must weigh 30 kg or less including batteries and sensors;
2.2	Must operate in environmental temperature range of -20C to +30 C;

Mandatory Technical Criteria

2.3	Must operate under wind conditions of up to 60kph;
2.6	Must have a stabilized 3 axis gimbal mechanism for sensor system;

To demonstrate that your products meet all preselected mandatory technical specifications and components mentioned above, Bidders must submit with their bid, **proofs of compliance**.

“Proof of Compliance” is defined as an unaltered document, such as a brochure and/or technical literature and/or a third party test report provided by a nationally and/or internationally recognized testing facility and/or a report generated by a nationally and/or internationally recognized third party software. The document **shall** provide detailed information on each performance requirement and/or specification. Where a document submitted as Proof of Compliance does not cover all the performance requirements and/or specifications or when no such document is available or when modifications to the original equipment or customization are required to achieve the performance requirements and/or specifications, a Certificate of Attestation (as a separate document) signed by a senior engineer representing the Original Equipment Manufacturer (OEM) detailing the modifications and how they meet the performance requirements and/or specifications **shall** be provided. The certificate **shall** detail all performance requirements and/or specifications required to substantiate compliance. One certificate can be provided for one or all performance requirements and/or specifications.

Canada will evaluate only the documentation provided with a bidder's bid. Canada will not evaluate information such as references to Web site addresses where additional information can be found, or technical manuals or brochures not submitted with the bid.

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4.1.2 Financial Evaluation

The total price of each bid will be established using the following criteria:

- (a) Bidders must submit firm prices, Canadian customs duties and excise taxes included, and Applicable Taxes excluded. For evaluation purposes, bids received in a foreign currency will be converted to Canadian funds using the appropriate rate of exchange using the rate quoted by the Bank of Canada as being in effect on date of bid closing.
- (b) Bidders must submit their prices DDP destination; Delivered Duty Paid.

4.2 Basis of Selection - Mandatory Technical Criteria

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

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PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

In accordance with the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

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5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

PART 6 - RESULTING CONTRACT CLAUSES

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

Notice: Numbering will be revised at contract award.

6.1 Requirement

The Contractor must provide an unmanned aerial vehicle (UAV), in accordance with the Requirement at Annex A.

6.2 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.

6.2.1 General Conditions

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

6.2.2 Supplemental General Conditions

The following Supplemental General Conditions apply to and form part of the Contract:

Number	Date	Title
4001	2015-04-01	Hardware Purchase, Lease and Maintenance
4003	2010-08-16	Licensed Software
4004	2013-04-25	Maintenance and Support Services for Licensed Software

6.3 Term of Contract

6.3.1 Period of the Contract

The period of the Contract is from date of Contract until the end of the warranty period inclusive.

6.3.2 Delivery Period

All the deliverables except training must be received within a period of sixty (60) calendar days after the contract is awarded.

6.3.3 Training Period

The 5-day training must be given no later than one hundred fifty (150) calendar days after the delivery of goods. A 3 weeks' notice will be given to the Contractor by the Technical Authority (Fisheries and Oceans Canada) to begin the training.

6.3.3.1 Liquidated Damages

1. If the Contractor fails to deliver the goods and perform the services within the time specified in the Contract, the Contractor agrees to pay to Canada liquidated damages in the amount of \$300.⁰⁰ for each calendar day of delay. The total amount of the liquidated damages must not exceed 10 percent of the contract price.
2. Canada and the Contractor agree that the amount stated above is their best pre-estimate of the loss to Canada in the event of such a failure, and that it is not intended to be, nor is it to be interpreted as, a penalty.
3. Canada will have the right to hold back, drawback, deduct or set off from and against the amounts of any monies owing at any time by Canada to the Contractor, any liquidated damages owing and unpaid under this section.
4. Nothing in this section must be interpreted as limiting the rights and remedies which Canada may otherwise have under the Contract.

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6.4 Authorities

6.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Marial Tremblay
Title: Supply specialist
Telephone: 418-677-4000, ext.: 4159
E-mail address: Marial.Tremblay@pwgsc.gc.ca

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

6.4.2 Technical Authority

The Technical Authority for the Contract is:

(to be completed at contract award by PWGSC)

Name: _____
Title: _____
Telephone No.: _____
Facsimile No.: _____
E-mail Address: _____

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

6.4.3 Contractor's Representatives

Name and telephone number of the person responsible for :

(a) Contract Manager:

Name: _____
 Title: _____
 Telephone No.: _____
 Facsimile No.: _____
 E-mail Address: _____

(b) Delivery and Training Follow up:

Name: _____
 Title: _____
 Telephone No.: _____
 Facsimile No.: _____
 E-mail Address: _____

6.5 Payment

6.5.1 Basis of Payment - Firm Lot Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid the firm lot prices, as specified in Annex " B " for a cost of \$_____ (to be completed at contract award by PWGSC). Customs duties are included, and Applicable Taxes are extra.

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

6.5.2 SACC Manual Clauses

Number	Date	Title
C2000C	2007-11-30	Taxes - Foreign-based Contractor
H1001C	2008-05-12	Multiple Payments

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6.6 Invoicing Instructions

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

2. Invoices must be distributed as follows:

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

6.7 Certifications and Additional Information

6.7.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.8 Applicable Laws

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

6.9 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:
 - i) 4001 (2015-04-01), Supplemental General Conditions - Hardware Purchase, Lease and Maintenance;
 - ii) 4003 (2010-08-16), Supplemental General Conditions - Licensed Software;
 - iii) 4004 (2013-04-25), Maintenance and Support Services for Licensed Software;
- (c) the general conditions 2010A (2016-04-04), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment; and
- (f) the Contractor's bid dated _____ (to be completed at contract award by PWGSC)

6.10 Electrical Equipment

All electrical equipment supplied under the Contract must be certified or approved for use in accordance with the Canadian Electrical Code, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada.

6.11 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and Delivered Duty Paid (DDP):

Fisheries and Oceans
Directions des sciences océaniques et de l'environnement
850 de la mer
Mont-Joli (Québec) G5H 3Z4

Incoterms 2000 for shipments from a commercial contractor.

6.12 Government Site Regulations

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

6.13 Intellectual Property Infringement and Royalties

1. The Contractor represents and warrants that, to the best of its knowledge, neither it nor Canada will infringe any third party's intellectual property rights in performing or using the Work, and that Canada will have no obligation to pay royalties of any kind to anyone in connection with the Work.
2. If anyone makes a claim against Canada or the Contractor concerning intellectual property infringement or royalties related to the Work, that Party agrees to notify the other Party in writing immediately. If anyone brings a claim against Canada, according to Department of Justice Act, R.S. 1985, c. J-2, the Attorney General of Canada must have the regulation and conduct of all litigation for or against Canada, but the Attorney General may request that the Contractor defend Canada against the claim. In either case, the Contractor agrees to participate fully in the defence and any settlement negotiations and to pay all costs, damages and legal costs incurred or payable as a result of the claim, including the amount of any settlement. Both Parties agree not to settle any claim unless the other Party first approves the settlement in writing.
3. The Contractor has no obligation regarding claims that were only made because:
 - a. Canada modified the Work or part of the Work without the Contractor's consent or used the Work or part of the Work without following a requirement of the Contract; or
 - b. Canada used the Work or part of the Work with a product that the Contractor did not supply under the Contract (unless that use is described in the Contract or the manufacturer's specifications); or
 - c. the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
 - d. the Contractor used a specific item of equipment or software that it obtained because of specific instructions from the Contracting Authority; however, this exception only applies if the Contractor has included the following language in its own contract with the supplier of that equipment or software: "[Supplier name] acknowledges that the purchased items will be used by the Government of Canada. If a third party claims that equipment or software supplied under this contract infringes any intellectual property right, [supplier name], if requested to do so by either [Contractor name] or Canada, will defend both [Contractor name] and Canada against that claim at its own expense and will pay all costs, damages and legal fees payable as a result of that infringement." Obtaining this protection from the supplier is the Contractor's responsibility and, if the Contractor does not do so, it will be responsible to Canada for the claim.
4. If anyone claims that, as a result of the Work, the Contractor or Canada is infringing its intellectual property rights, the Contractor must immediately do one of the following:

Solicitation No. - N° de l'invitation

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

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bal001

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

File No. - N° du dossier

CCC No./N° CCC - FMS No./N° VME

F3757-160507

BAP-6-39106

-
- a. take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
 - b. modify or replace the Work to avoid intellectual property infringement, while ensuring that the Work continues to meet all the requirements of the Contract; or
 - c. take back the Work and refund any part of the Contract Price that Canada has already paid.

If the Contractor determines that none of these alternatives can reasonably be achieved, or if the Contractor fails to take any of these steps within a reasonable amount of time, Canada may choose either to require the Contractor to do (c), or to take whatever steps are necessary to acquire the rights to use the allegedly infringing part(s) of the Work itself, in which case the Contractor must reimburse Canada for all the costs it incurs to do so.

ANNEX A - REQUIREMENT

A.1 Objective

Fisheries and Oceans Canada (Quebec region) wish to acquire an unmanned autonomous vehicle (UAV) for research on marine mammals. The machine is to be used during coastal surveys to estimate abundance, and distribution and during behaviour research to study group movement and cohesion, identify and record animal markings.

A.2 Context

Fisheries and Oceans Canada is purchasing a UAV that will be deployed to survey marine mammals. This purchase is needed as part of long term research aimed at collecting abundance and ecological data to provide insights into the role that marine mammals play in the marine ecosystem.

A.3 Training

The Contractor must provide five (5) days (7.5 hours per day) of training course, in English or in French, for operators at the Maurice Lamontagne Institute in Mont-Joli facilities with the same type of platform that bought for 4 people to satisfy Transport Canada's aviation knowledge for SFOC applications. The results will include the certificate of course completion certificate and a restricted radio operator for each participant. This course should cover the following topics:

1. Introduction to unmanned aircraft systems;
2. Human factors and radio telephony;
3. Air Law and procedures;
4. Weather concepts for UAV operators;
5. Theory of flight;
6. Special Flight Operations Certificate;
7. Site considerations for UAV operator;
8. Aircraft logbooks;
9. Ground Control Station operations for a UAV;
10. Payload operations for a UAV;
11. Live flight as Ground Control Station operator with the same type of UAV as supplied, with demonstration of the basic maintenance of the unit.

A.4 Mandatory Technical Specifications and Components

The mandatory technical specifications and components listed in the tables below are, first and foremost, the minimum requirements and do not constitute an exhaustive list.

Any technical specifications and components required for operation of the equipment and not described in the table below are an integral part of this annex and their cost is included in the firm lot price for the unmanned autonomous vehicle (UAV).

➤ Instruction to Bidders

- 2) In the second-last column of the following table, bidders should indicate the specifications and components offered.
- 3) In the last column of the following table, bidders should indicate where in their technical documents we can find information on the specifications and components offered.
- 4) Do not forget to refer to clause 4.1.1.1 of Part 4 and to include with your bid, the table below duly completed.

Mandatory Technical Specifications and Components		Specifications and Components Offered	Title, Page and/or Line the Technical Documents
1	Mandatory Operational Requirements:		
1.1	Must be able to Vertical Take-off and landing;		
1.2	Must be able to Automatic Take-Off Landing (ATOL);		
1.3	Must be able to hover, target and hold visual feed on a defined target GPS position;		
1.4	Must be able to flight with endurance of 40 minutes or more under calm wind conditions, with a payload of at least 200g;		
1.5	Capable of pre-programmed flight, assisted manual flight, in flight mission modification;		
1.6	Capable of incorporating automatic track and follow ground operator/base control station for convoy or follow-me based operations; and		
1.7	Must have return to base if communication problems, low battery levels or environmental conditions are encountered.		

Mandatory Technical Specifications and Components		Specifications and Components Offered	Title, Page and/or Line the Technical Documents
2	Mandatory Technical Requirements:		
2.1	Must weigh 30 kg or less including batteries and sensors;		
2.2	Must operate in environmental temperature range of -20C to +30 C;		
2.3	Must operate under wind conditions of up to 60kph;		
2.4	Must operate in altitudes of 300m or more;		
2.5	Must be capable of operating beyond Visual Line of Sight Capable (>5km from Ground Control Station);		
2.6	Must have a stabilized 3 axis gimbal mechanism for sensor system;		
2.7	Must have ability to add/swap multispectral sensors;		
2.8	Must have high resolution imaging sensor ≥ 15 MP, resolution ≤ 3 cm per pixel;		
2.9	Must have a thermal IR must have a minimum resolution of 640x480 pixels;		
2.10	Imagery output must be compatible with photogrammetry software such as PIX4D or ARCGIS (Drone2Map); and		
2.11	Must have digital video feed.		
3	Mandatory Components:		
3.1	Must come with aircraft tool kit;		
3.2	Must come with a set of spare parts with at least a full set of blades or spare propellers and a set of legs, skis or spare landing pads;		
3.3	Must come with spare battery;		
3.4	Must come with aircraft battery charger		
3.5	Must come with ground control station; and		
3.6	Must come with a backup controller.		

ANNEX B - BASIS OF PAYMENT**B.1 Pricing**

- (a) Before submitting your prices, please refer to clause **6.5 Payment** where it is mentioned, inter alia, that applicable taxes are not included in the prices.
- (b) Please indicate the brand name and model offered and complete the last column of the following table:

Item	Description	Qty	Unit	Firm Lot Price
1	Unmanned Autonomous Vehicle (UAV) and its Components <ul style="list-style-type: none"> • Brand Name Offered: _____ • Model Offered: _____ • As per section A.4 of Annex A. 	1	lot	\$
3	Delivery Charges <ul style="list-style-type: none"> • goods delivered to the destination indicated in clause 6.11 Shipping Instructions - Delivery at Destination of this document. 	1	lot	\$
3	Training Charges (for a minimum period of 5 days, on-site at destination) <ul style="list-style-type: none"> • as per clause 6.3.3 Training Period of this document; • as per section A.3 of Annex A; and • labour, equipment, travel and living expenses included. 	1	lot	\$
Total Value of the Contract:				\$

ANNEX C - PRESENTATION OF YOUR BID

C.1 Check List

Below is a checklist of the contents of your bid. This list is not an exhaustive list; it remains the Bidder's responsibility to prepare its bid in accordance with the instructions contained in the Request For Proposal (RFP) and provide a comprehensible and sufficiently detailed bid, including all requested pricing details that will permit a complete evaluation in accordance with the criteria set out in the RFP.

Pagination of <u>Document 1 of 2</u> (document of only one page)	
Page 1 of 1 ↓	Bidders should include with their bid, the first sheet of this RFP properly completed and signed. Refer to 2003 Standard Instructions mentioned in clause 2.1 Standard Instructions, Clauses and Conditions .
Pagination of <u>Document 2 of 2</u> (document of 26 pages)	
Page 5 ↓	Bidders must submit their bid only to the address indicated in clause 2.2 Submission of Bids .
Pages 9 and 10	Bids of Bidders must meet the mandatory technical criteria described in clause 4.1.1.1 Mandatory Technical Criteria . <ul style="list-style-type: none"> ➤ Do not forget to joint your proofs of compliance with your bid.
Page 12	<u>Applicable only if an offence has been committed</u> Bidders must provide with their bid the required documentation as indicated Clause 5.1.1 Integrity Provisions - Declaration of Convicted Offences .
Page 12	Bidders must provide with their bid or promptly thereafter a list of names as indicated in clause 5.2.1 Integrity Provisions - Required Documentation . <ul style="list-style-type: none"> ➤ Please refer to section "17. Information to be provided when bidding, contracting or entering into a real property agreement" of the following Web site: http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html
Page 17	Bidders should submit with their bid, clause 6.4.3 Contractor's Representatives properly completed.
Pages 23 and 24	Bidders should include with their bid, the table of section A.4 of Annex "A" duly completed.
Page 25	Bidders must include with their bid, Annex "B" - Basis of Payment duly completed.