



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving - PWGSC/Réception des soumissions
- TPSGC

11 Laurier St./11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau

Quebec

K1A 0S5

**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 VTOL RPAS services for demonstratio Vertical Takeoff and Landing Remotely Piloted Aircraft System services for eval	
Solicitation No. - N° de l'invitation T8493-200011/A	Date 2020-11-30
Client Reference No. - N° de référence du client T8493-200011	
GETS Reference No. - N° de référence de SEAG PW-\$\$\$L-013-38716	
File No. - N° de dossier 013sl.T8493-200011	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2020-12-22 Heure Normale du l'Est HNE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Sinka, William	Buyer Id - Id de l'acheteur 013sl
Telephone No. - N° de téléphone (613) 410-6806 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF TRANSPORT 200 COMET PRIVATE OTTAWA Ontario K1V9B2 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

Defence Science Projects Division/Division des projets des sciences de la défense

Les Terrasses de la Chaudière

10, rue Wellington, 4e étage

Gatineau

Quebec

K1A 0S5

Delivery Required - Livraison exigée See Herein – Voir ci-inclus	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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013sl. T8493-200011

Buyer ID - Id de l'acheteur
013sl
CCC No./N° CCC - FMS No./N° VME

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation 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 and Additional Information: includes the certifications and additional information to be provided;
- Part 6 Security, Financial and Other Requirements: includes specific requirements that must be addressed by Bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Requirement, the Basis of Payment, the Electronic Payment Instruments, and any other annexes.

1.2 Summary

1.2.1 Public Works and Government Services Canada (PWGSC), on behalf of Transport Canada (TC) has a requirement for a Canadian contractor to provide Vertical Takeoff and Landing (VTOL) Remotely Piloted Aircraft System (RPAS) services for demonstration and evaluation of current capabilities of a late stage R&D solution for the purpose of future North Atlantic Right Whale Monitoring.

The procurement strategy includes a phased evaluation, the award of up to three contracts for the purpose of demonstrating the technical functionalities and capabilities of the bidders' proposed solution and an option to perform a mission in Gaspé, Quebec carrying a government furnished payload.

- 1.2.2 The requirement is limited to Canadian goods and services.
- 1.2.3 The Federal Contractors Program (FCP) for employment equity applies to this procurement; refer to Part 5 – Certifications and Additional Information, Part 7 - Resulting Contract Clauses and the annex titled Federal Contractors Program for Employment Equity - Certification.
- 1.2.4 This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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.

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](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 120 days

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 in the bid solicitation.

Note: For bidders choosing to submit using epost Connect for bids closing at the Bid Receiving Unit in the National Capital Region (NCR) the email address is:

tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

Due to the nature of the bid solicitation, bids transmitted by facsimile to PWGSC 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.

Definitions

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

- a. an individual;

- b. an individual who has incorporated;
- c. a partnership made of former public servants; or
- d. a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

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

Former Public Servant in Receipt of a Pension

As per the above definitions, is the 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:

- b. name of former public servant;
- c. 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: 2019-01 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; number and
- g. amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

2.4 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 7 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.5 Applicable Laws

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

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.

2.6 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

3.1.1 Electronic Submission

If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid

Section III: Certifications

Section IV: Additional Information

3.1.2 Paper Submission

Canada requests that bidders follow the format instructions described below in the preparation of hard copy 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.

If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

- Section I: Technical Bid (2 hard copies)
- Section II: Financial Bid (1 hard copy)
- Section III: Certifications (2 hard copies)
- Section IV: Additional Information (2 hard copies)

3.1.3 Multiple Delivery methods

If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

3.1.4 General

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

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

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](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, bidders should:

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

Section I: Technical Bid

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

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that Bidders address and present topics in the order of the evaluation criteria under the same headings. To

avoid duplication, Bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

It is recommended that the Bidder include the compliance grid in Annex E with their proposal, cross-referencing how they meet each of the mandatory requirements as well as the page(s) in the proposal where the information is located.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex "B" Section 2.

3.1.5 Electronic Payment of Invoices – Bid

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex "D" Electronic Payment Instruments, to identify which ones are accepted.

If Annex "D" Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.6 Exchange Rate Fluctuation

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

3.1.7 SACC Manual Clauses

Section III: Certifications

Bidders must submit the certifications required under Part 5.

Section IV: Additional Information

Bidders are request to submit additional information as per section 5.3 of 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" evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

Mandatory and point rated technical evaluation criteria are included in Annex "C".

Bidders must achieve at least 1 point for each of the Mandatory Rated Criterion to be considered responsive.

The Bidder must provide (as part of their Bid) the necessary documentation to support how each of the mandatory criteria have been met.

Specifically:

- a. The Bidder is advised that identifying that a mandatory criterion has been met without providing any supporting documentation will not constitute “demonstrated” for the purpose of the evaluation;
- b. The Bidder must clearly demonstrate in the Bid how the mandatory requirements and experience are met supported by documentation; and
- c. It is recommended that the Bidder cross-reference how they meet each of the mandatory requirements in the proposal and where the information is located.

Note: Completion of the Bidder Compliance Grid in Annex E, by itself DOES NOT constitute “demonstrated” for the purpose of the evaluation. As stated in b, the supporting documentation will be required as evidence.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

- a. The Bidder must submit firm prices in Canadian dollars, applicable taxes are excluded, FOB Destination, all applicable Customs Duties and Excise taxes included.
- b. The Bidder must submit firm unit pricing for all option items in section 2 of Annex B. The Bidder is requested to quote firm pricing at no more than two decimal points.

Mandatory Financial Criteria are included in section 2 of Annex B.

4.1.2.2 Financial Evaluation Worksheet

The Total Financial Bid will be calculated based on the information provided in section 2 Option Periods of Annex B using the Financial Evaluation Worksheet in Annex C.

For Crew Expense Calculation and for the sole purposes of evaluation, the total crew expense will be calculated using the rate of \$300.00 per day per person for travel and living expenses and 30 as the number of days.

4.2 Basis of Selection

4.2.1 Basis of Selection - Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation; and
 - b. meet all mandatory technical evaluation criteria; and
 - c. obtain the required minimum points specified for each criterion for the technical evaluation, and
2. Bids not meeting (a) or (b) or (c) 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 60% for the technical merit and 40% 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 60%.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 40%.
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. A total of up to three Contracts may be awarded.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%)

		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		115/135	89/135	92/135
Bid Evaluated Price		\$55,000.00	\$50,000.00	\$45,000.00
Calculations	Technical Merit Score	$115/135 \times 60 = 51.11$	$89/135 \times 60 = 39.56$	$92/135 \times 60 = 40.89$
	Pricing Score	$45/55 \times 40 = 32.73$	$45/50 \times 40 = 36.00$	$45/45 \times 40 = 40.00$
Combined Rating		83.84	75.56	80.89
Overall Rating		1st	3rd	2nd

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 Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the Integrity declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

5.1.2 Additional Certifications Required with the Bid

5.1.2.1 Canadian Content Certification

This procurement is limited to Canadian services.

The Bidder certifies that:

() the service offered is a Canadian service as defined in paragraph 2 of clause [A3050T](#).

5.2 Certifications Precedent to Contract Award

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.

5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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

5.3 Additional Information

The Bidder is requested to provide with their proposal their company's experience is providing RPAS services, the RPAS system history and development.

PART 6 - SECURITY, FINANCIAL AND OTHER REQUIREMENTS

6.1 Security Requirements

There is no security requirement applicable to this Contract.

6.2 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.

7.1 Statement of Requirement

The Contractor must provide Vertical Takeoff and Landing (VTOL) Remotely Piloted Aircraft System (RPAS) demonstration and testing services in accordance with the Requirement at Annex "A".

7.1.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Section 2 of Annex B of the Contract under the same conditions and at the prices 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.

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

7.2 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.

7.2.1 General Conditions

[2040](#) 2020-05-28 General Conditions - Research & Development, apply to and form part of the Contract.

7.3 Security Requirements

7.3.1 There is no security requirement applicable to the Contract.

7.4 Term of Contract

7.4.1 Period of the Contract

The period of the Contract is from date of Contract to _____ inclusive.

7.4.2 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to two additional one year period(s) under the same conditions. The Contractor agrees that, during the

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File No. - N° du dossier
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Buyer ID - Id de l'acheteur
013sl
CCC No./N° CCC - FMS No./N° VME

extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least 30 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: William Sinka
Title: Supply Team leader
Public Works and Government Services Canada
Acquisitions Branch
Directorate: Innovation Procurement Directorate
Address: 10 Wellington Street, Gatineau, Quebec K1A 0S5

Telephone: 613-410-6806
E-mail address: william.sinka@tpsgc-pwgsc.gc.ca

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

7.5.2 Project Authority

The Project Authority for the Contract is: (to be completed at contract award)

Name: _____
Title: _____
Organization: _____
Address: _____

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

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

7.5.3 Contractor's Representative

Name: _____

Title: _____

Telephone: ____-____-_____

E-mail address: _____

7.6 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: 2019-01 of the Treasury Board Secretariat of Canada.

7.7 Payment

7.7.1 Basis of Payment

7.7.1.1 Initial Period

For the Work described in sections 7.1 of the Statement of Requirement at annex A:

The Contractor will be paid for the Work performed in accordance with the Basis of Payment at Annex B, to a limitation of expenditure of \$125,000.00. Customs duties are included, and Applicable Taxes are extra.

7.7.1.2 Option Period

For the Work described in Section 7.2 of the statement of requirement in annex A:

The Contractor will be paid for its costs reasonably and properly incurred in the performance of the Work, in accordance with the Basis of payment in annex B, to a limitation of expenditure of \$_____ (insert the amount at contract award). Customs duties are included and Applicable Taxes are extra.

7.7.1.3 Limitation of Expenditure Option Period

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

whichever comes first.

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

7.7.1.4 Authorized Travel and Living Expenses for work

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, and private vehicle allowances specified in Appendices B, C and D of the [National Joint Council Travel Directive](#), and with the other provisions of the directive referring to "travellers", rather than those referring to "employees". Canada will not pay the Contractor any incidental expense allowance for authorized travel.

All travel must have the prior authorization of the Project Authority.

All payments are subject to government audit.

Initial Period Estimated Cost: \$25,000.00.

Per Option Period Estimated Cost: \$150,000.00

7.7.2 Single Payment

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

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

7.7.3 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

7.8 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.

Each invoice must be supported by:

-
- a. a copy of the invoices, receipts, vouchers for all direct expenses, and all travel and living expenses.
 2. Invoices must be distributed as follows:
 - a. The original and two (2) copies must be forwarded to the following address for certification and payment.
Transport Canada
200 Comet Private, Ottawa, ON K1V 9B2
 - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

7.9 Certifications and Additional Information

7.9.1 Compliance

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

7.9.2 SACC Manual Clauses

A3060C 2008-05-12 Canadian Content Certification

7.10 Applicable Laws

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

7.11 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2040 2020-05-28
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____.

7.12 Insurance

SACC Manual clause G1005C 2016-01-28 Insurance - No Specific Requirement

7.13 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.

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- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
 - (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
 - (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

7.14 Location of Testing & Evaluation

The Contractor will hold the Initial solution evaluations at one of the following approved RPAS testing site:

() Alma, Quebec

() Foremost, Alberta

() Alternate site meeting the requirements for the issuance of a Special Flight Operations Certificate (SFOC).

Alternate site address:

Address: _____

City: _____

Province: _____

Postal Code: _____

Designated Air Space Location: _____

ANNEX "A"

STATEMENT OF WORK

1 Background

Currently, Operation of a Remotely Piloted Aircraft System (RPAS) utilizing existing airport infrastructure requires the closure of the surrounding airspace to manned aircraft during RPAS operations. In addition, operation of fixed wing RPAS in remote areas where no airport infrastructure is available requires complex launch and recovery equipment and large approach and departure areas.

2 Scope of Work

Transport Canada is conducting research into currently available Vertical Takeoff and Landing (VTOL) Remotely Piloted Aircraft Systems (RPAS) for the purpose of future North Atlantic Right Whale Monitoring and is seeking up to three Canadian contractors to provide demonstration services using late stage VTOL RPAS solutions.

The Contractor will provide a late stage VTOL RPAS solution for testing and evaluation of capabilities by Transport Canada.

There is an option for the Contractor to supply RPAS services with suitable redundancy, spare parts, crew and logistical support to successfully conduct a 4-6 week mission in Gaspé, Quebec using the Government furnished camera payload. See Appendix 1 to Annex A for payload specifications and images. The contractor must be prepared to deliver between 50 to 75 hours of operational surveillance during the field trial.

3 Requirements:

- 3.1 The Contractor must be able to conduct the following activities: mission planning, payload integration, flight operation, and maintenance of the solution.
- 3.2 The Contractor must obtain any necessary permits prior to commencing RPAS operations.
- 3.3 The contractor must provide the RPAS and RPAS pilots, sensor operators, maintenance engineers, and any other personnel required to operate and support the RPAS during operational demonstration, test, evaluation, and mission activities.
- 3.4 Proposals must describe the concept of operations to deliver a full endurance mission, and preferred location for the testing site.
- 3.5 RPAS requirements:
 - 3.5.1 Must be at a minimum Technical Readiness Level (TRL) of 7 as defined by [Innovation, Science and Economic Development \(ISED\) Canada](#);
 - 3.5.2 Must be a Vertical Take-off and Landing (VTOL) Remotely Piloted Aircraft System (RPAS) able to launch and recover from an open area measuring 50m x 50m;
 - 3.5.3 Must accommodate a payload measuring 200mm wide, 300mm high, and 425mm long. The payload is oriented vertically, with the 425mm length as the vertical component;
 - 3.5.4 Must be able to provide a constant 110 watt power supply at 12 - 14 VDC for the entire flight duration to power payload equipment;

-
- 3.5.5 Must be equipped with an ADS-B out transponder;
 - 3.5.6 Must be equipped with redundant Command and Control Links and be able to safely navigate, return to base or terminate flight in a safe and secure manner in the case of a loss of Command and Control link;
 - 3.5.7 Must be able to operate Beyond Visual Line of Sight (BVLOS) up to a minimum distance of 80 nautical miles from launch and recovery point;
 - 3.5.8 Must be able to reach a minimum cruise speed of 70 Knots Indicated Air Speed (KIAS);
 - 3.5.9 Must be able to carry a sensor payload of 6 Kg or more;
 - 3.5.10 Must be able to achieve at a minimum a 6-hour flight, with a one-hour energy reserve with a 6 Kg payload;
 - 3.5.11 Must have a Detect and Avoid (DAA) system suitable for BVLOS operations or a proposed mitigation procedure (that does not require another aircraft) which will permit safe BVLOS operation of the RPAS and avoid conflict with other aircraft and objects; and
 - 3.5.12 RPAS design must support operation to a minimum ceiling of 5000 feet Above Sea Level (ASL).

4. Objectives

4.1 RPAS operations will consist of:

- 4.1.1 Test and Evaluation: payloads, sensors, launch and recovery elements, command and control elements, data streaming and transmission.
- 4.1.2 Maritime Missions: marine mammal monitoring.

5. RPAS Operations

The RPAS research will examine the currently available Vertical Takeoff and Landing (VTOL) Remotely Piloted Aircraft Systems (RPAS) available from Canadian service providers.

6. Testing and Evaluation Schedules

Schedules will be identified via email notification with sufficient time allowed for mission planning, obtaining required authorizations, and project logistics. The Contractor shall provide a VTOL RPAS meeting the requirements as indicated in Section 3.5.

7. Deliverables

7.1 Testing & Evaluation Exercise

- 7.1.1 The Contractor is responsible to provide qualified pilots, maintainers, and sensor operators meeting Canadian Aviation Regulations Part IX to support testing and evaluation activities and issuance of a Special Flight Operations Certificate.
- 7.1.2 The Contractor will be responsible for the required approvals from NavCanada and any Special Flight Operations Certificate (SFOC) from Transport Canada required to execute the flight for testing and evaluation.

- 7.1.3 Using a late stage VTOL RPAS solution, the Contractor must demonstrate the minimum RPAS capabilities listed in section 3.5 of Annex A during the flight test and evaluation exercise.
- 7.1.4 The Contractor's late stage VTOL RPAS solution will be evaluated using the evaluation form found at Attachment 1 to Annex B.

7.2 Mission

- 7.2.1 The Contractor is responsible to provide qualified pilots, maintainers, and sensor operators meeting Canadian Aviation Regulations Part IX to support the Gaspé mission activities and issuance of a Special Flight Operations Certificate.
- 7.2.2 The Contractor will be responsible for the required approvals from NavCanada and any Special Flight Operations Certificate (SFOC) from Transport Canada required to execute the Gaspé mission.
- 7.2.3 The Contractor is responsible for integration of the Government furnished payload (Appendix 1 to Annex A) into their RPAS prior to mission in Gaspé, Quebec.
- 7.2.4 The contractor is responsible for transport and set up of the RPAS equipment prior to commencement of the surveillance mission and the tear down and return transport post mission. Daily equipment rates shall only apply for the surveillance period. Travel expenses will be reimbursed in accordance with the federal government travel directive, specified in Appendices B, C and D of the [National Joint Council Travel Directive](#).
- 7.2.5 The Contractor is responsible to successfully deploy the RPAS with integrated payload for the purpose of collecting surveillance images suitable for AI processing onboard the RPAS.
- 7.2.6 The contractor is required to share technical data and coordinate with Transport Canada and its contractors for the purpose of payload integration and operational support.
- 7.2.7 The same model of RPAS used during the test and evaluation exercise must be used during the Gaspé mission. It is not required to be exact same RPAS.
- 7.2.8 Mission Plans: The contractor must provide a draft Mission Plan 30 days in advance of the Gaspé mission for approval by the Project Authority.
- 7.2.9 Mission Reports: For each RPAS flight activity the Contractor shall provide a Mission Report no later than 15 business days after the end of the event.
- 7.2.10 Final Report: At the conclusion of the Gaspé mission, the contractor shall provide a final report on the planning, execution and results of the surveillance effort. The report shall include but is not limited to the following categories.

Report Contents;

- Project Overview
 - o Introduction
 - o Definitions
- Executive Summary
 - o Project Objectives
 - o Description of Operations

- Data Collection Methodology
- Anticipated Outcomes
- RPAS Operations
 - Participating Organizations
 - RPAS Equipment – Description and Operation
 - Operational Location and Survey sight
 - Logistics and Set-up
 - Mission Planning
 - Coordination and Airspace Management
 - Regulatory Approvals
 - Flight Operations
- Data Collection
 - Data Management
 - Data Analysis
 - Reporting an Statistics
- Project Conclusion
 - Project Challenges
 - Lessons Learned
 - Recommendations for future Operations
- Supporting Documentation
 - Special Flight Operations Certificate (SFOC)
 - NavCanada Airspace Agreement
 - Notices to Airmen (NOTAM)

8. Language Requirements

The proposed resource(s) must be able to communicate orally and in writing in English. The language of all written Deliverables will be English.

9. Travel

Travel may be required depending on the location chosen for testing and evaluation. Locations will be either Alma, Quebec, Foremost, Alberta, or an alternate site meeting the requirements for the issuance of a Special Flight Operations Certificate (SFOC).

Travel will be required for the mission in Gaspe, Quebec should the option be exercised.

10. Location of work

Work is planned to take place in an approved RPAS testing site in Alma, Quebec or Foremost, Alberta or at any alternate site mutually agreed to by the bidder and Transport Canada meeting the requirements for the issuance of a SFOC.

Work will also be required to take place in Gaspe, Quebec should the option be exercised.

11. Confidentiality requirement

The Contractor may not speak to the media regarding this contract without prior approval from Transport Canada (TC).

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The Contractor shall not reproduce, in any form, any portion of the documentation or Confidential information related to the project considered proprietary by TC. The Contractor shall hold in strictest confidence all project Information received and agrees not to disclose such information to any person other than those direct members of the proposal response team as necessary. The Contractor shall take all precautions in dealing with the Information so as to prevent any unauthorized person from having access to such Confidential Information.

The term "Confidential Information" means all information (whether oral, written or computerized) which is identified orally or in writing as being information of a confidential', "restricted or "protected" nature and shall include any excerpts of or copies made of such information and any notes made from the review of such material by the Contractor.

12. Images & Meta-data

All collected images and associated meta-data collected during the mission will become the property of Canada.

APPENDIX 1 OF ANNEX "A"
GOVERNMENT PROPERTY

The Government furnished camera and peripherals will be supplied only upon exercise of an options as per section 2 of Annex B.

1. Government furnished camera and peripherals.

The current payload consists of a Nikon DSLR D850 Camera and lens mounted vertically in a mounting fixture secured to the RPAS structure, a peripherally mounted Xavier computer adjacent to the payload inside the RPAS and a Geosnap satellite link and GPS antennas with associated wiring and cabling. The contractor should anticipate that reconfiguration of the mounting provisions may be required as part of the integration and some redesign and manufacturing of mounting fixtures will be required.

1.1 Component Specifications

Component	Mass (g)
D850	1022
Lens	1190
Xavier	703
ICYBox	109
Camera Rail	330
Camera Ring Mount	429
Camera Mount X-member	485
FOV GeoSnap + Cables	491
Total	4759
Add 15% Safety Margin	5472.85

Component	Power (W)
D850	40.5
Xavier plus peripherals	65
GeoSnap	0.5
Total	106

Dimensions

Width	190mm
Height	285mm
Length	400mm

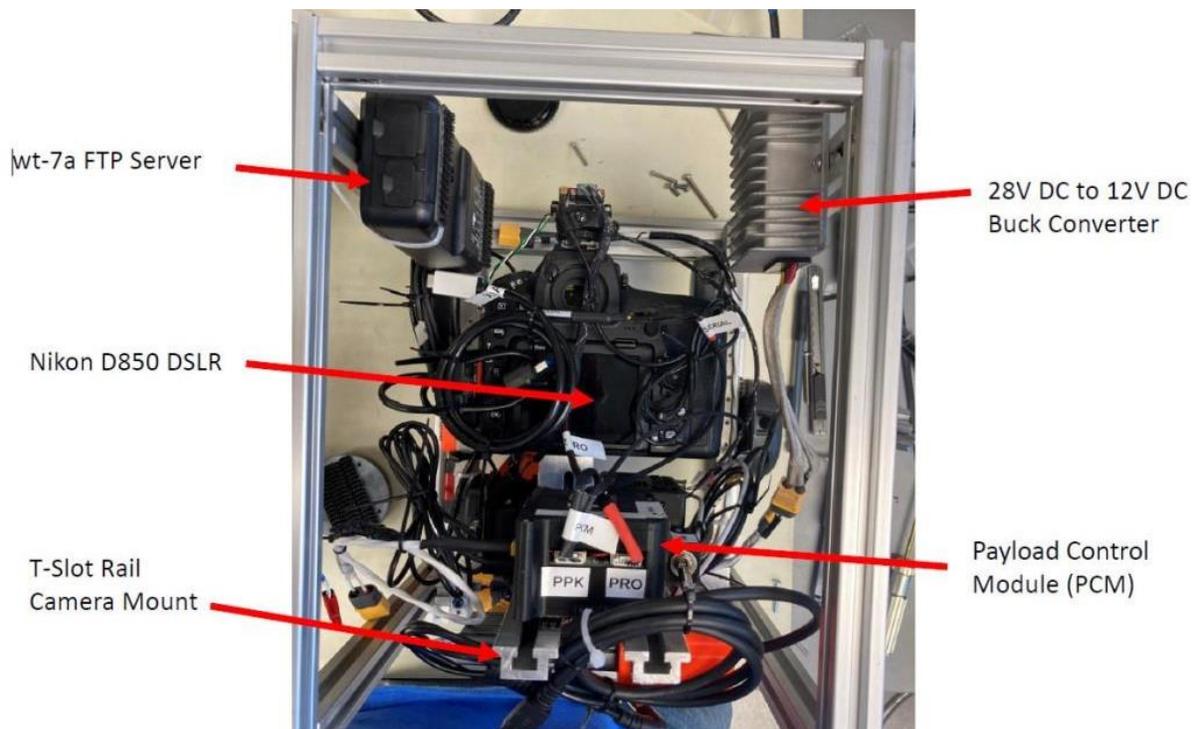
2 Images

Image #1 to #3: The aluminum frame that appears is not part of the payload, it is a bench fixture to mount the payload in for testing.

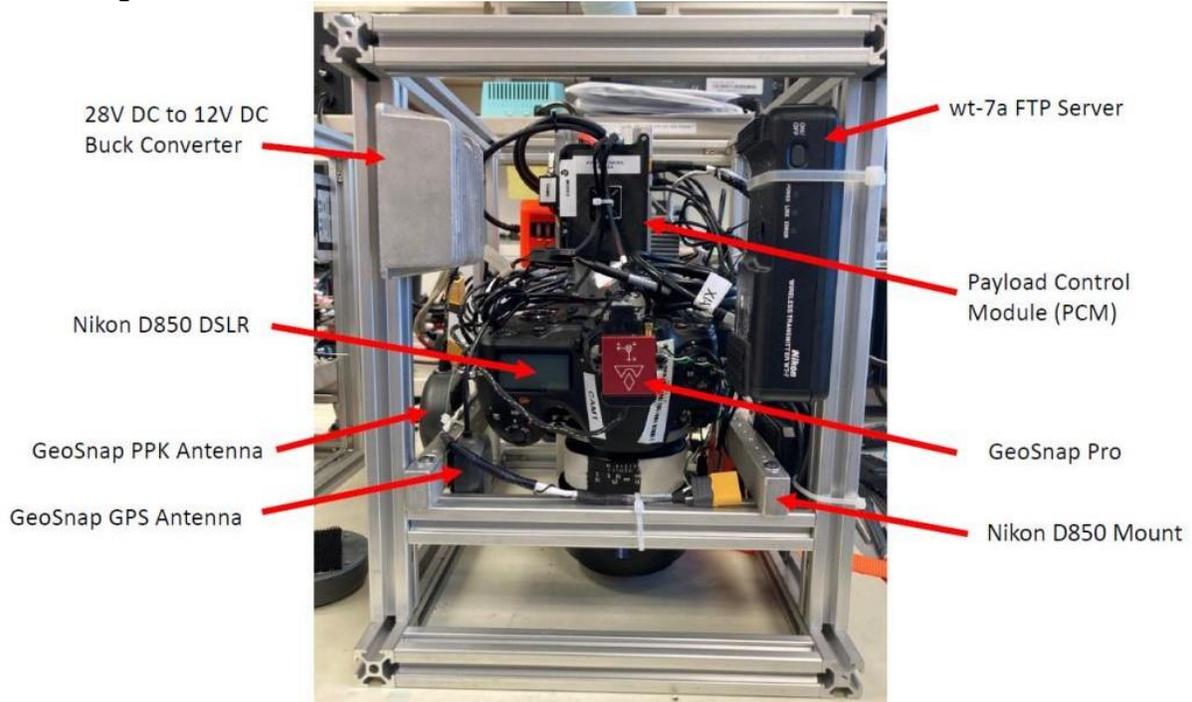
Image #5: The payload mounted in Griffon Seahunter Outlaw RPAS.

Image #6: The current payload mounting system and for reference purposes only. The contractor may choose to use all, part or none of the current mounting system which may require redesign or modification to work with a new RPAS platform.

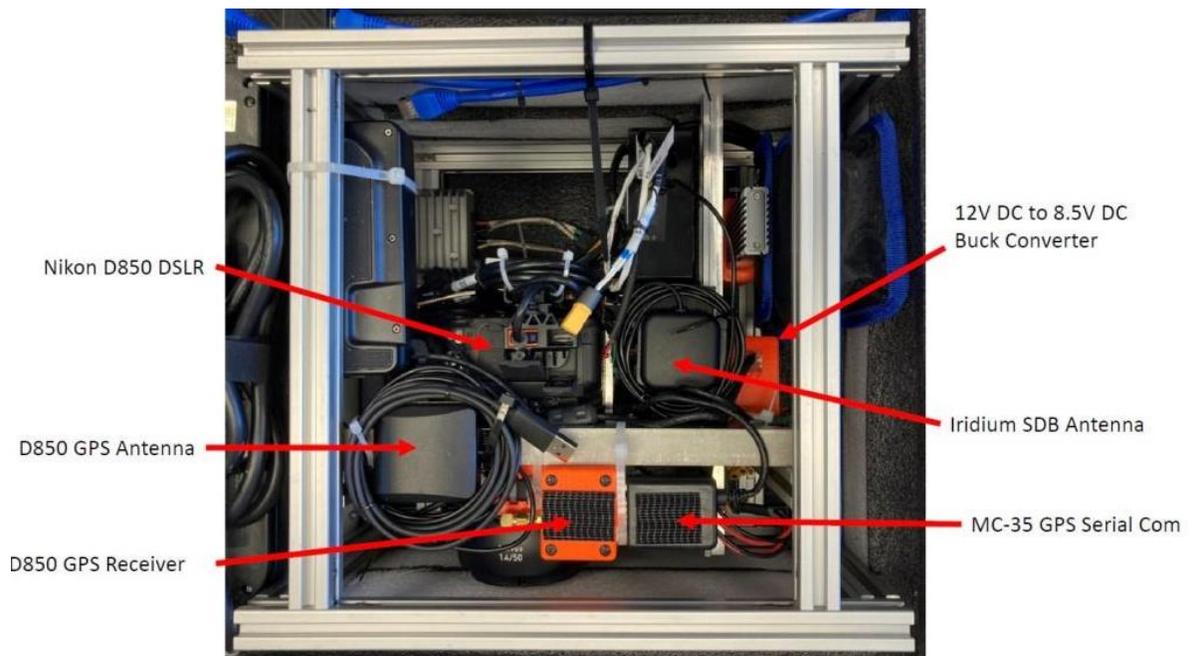
2.1 Image #1



2.2 Image #2



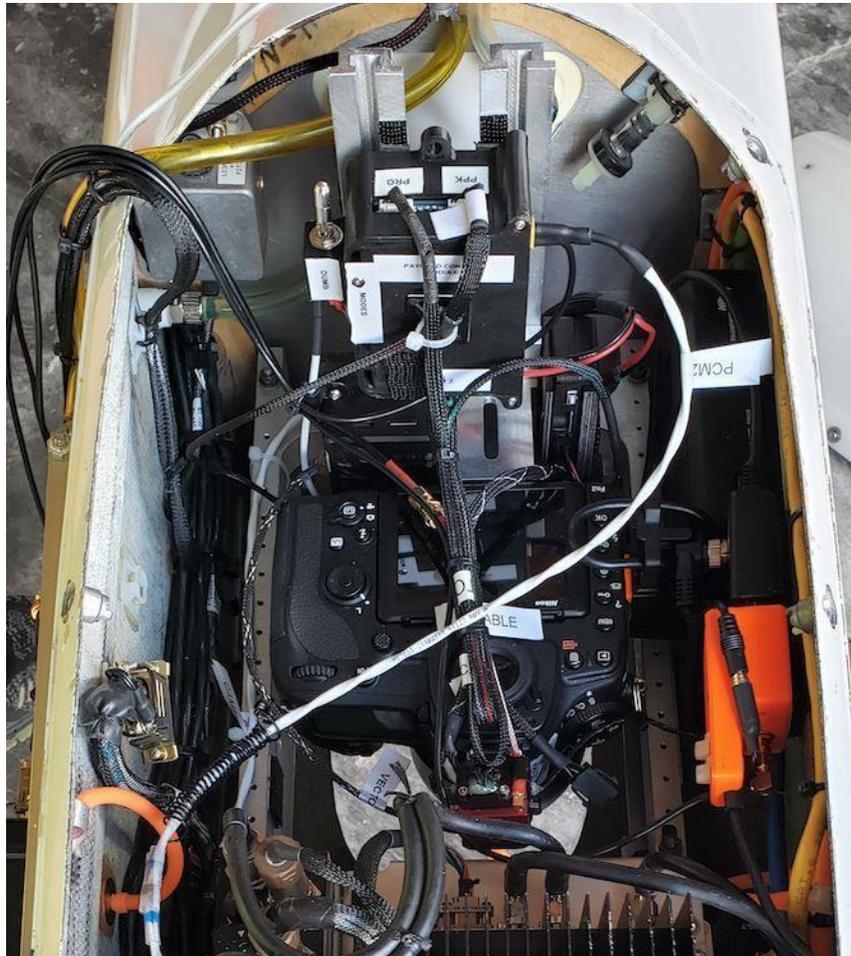
2.3 Image #3



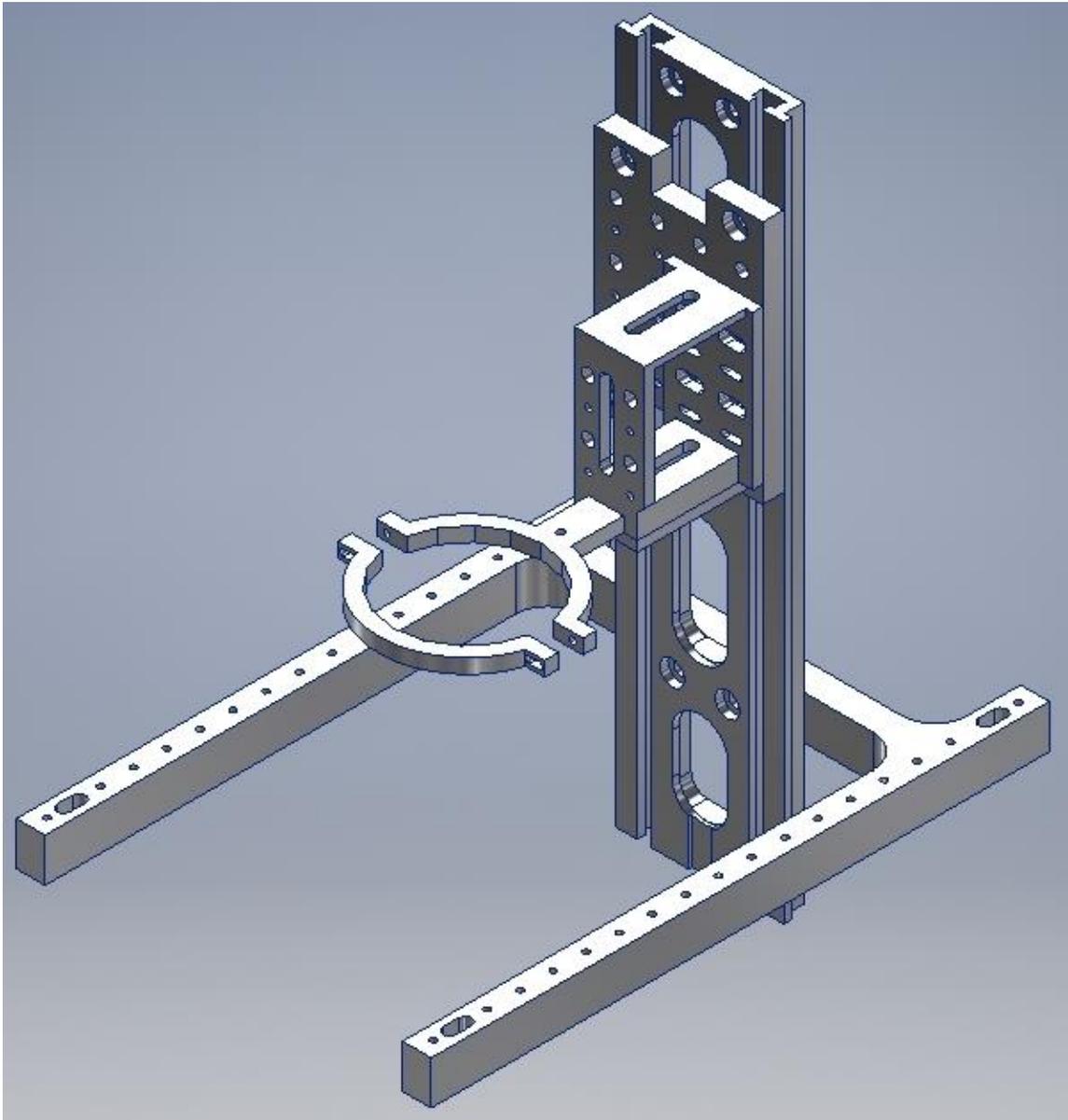
2.4 Image #4



2.5 Image #5



2.6 Image #6



3. Shipping of Government furnished camera and peripherals

Transport Canada will be responsible for the cost of shipping the camera and peripherals to the Contractor's facility and its return, from the Contractor's facility upon completion of the work as detailed in 7.2 of Annex A.

It is the Contractor's responsibility to ensure that the camera and peripherals are properly packaged to ensure that they are not damaged during transport from the Contractor's facility.

ANNEX "B"
BASIS OF PAYMENT

Deliverables

1. Initial Period

The Contractor must provide the proposed late stage VTOL RPAS services for testing and evaluation of its capabilities by Transport Canada within 60 calendar days of receipt of the notice of testing.

For the Work described in Section 7.1 of Annex A, the Contractor will be paid the following firm, all-inclusive rate (excluding Travel and Living expenses and Applicable Taxes).

Item	Description	Firm All-Inclusive Price Taxes Excluded
1	<p>Preparation, approvals, test site, and RPAS.</p> <p>The Contractor is responsible:</p> <ol style="list-style-type: none"> 1. to secure use of the testing site; 2. for all approvals from NavCanada and any Special Flight Operations Certificate (SFOC) from Transport Canada required to execute the flight for testing and evaluation; 3. to provide qualified pilots, maintainers, and sensor operators meeting Canadian Aviation Regulations Part IX; and 4. to ensure that the VTOL RPAS system with suitable redundancy, spare parts, and logistical support is present at the time and place of the testing and evaluation. 	\$45,000.00
2	<p>Operational Risk Assessment (ORA) prepared in accordance with Transport Canada interim guidance, draft Advisory Circular AC-903-001-X. A copy of the latest version of AC-903-001-X will be provided.</p> <p>ORAS to be provided to Project Authority within 30 calendar days from notice.</p>	\$17,500.00

3	<p>Requirement Evaluation Table 1 of Attachment 1 of Annex B</p> <p>The contractor's proposed solution will be evaluated based on Table #1 Basic Requirement Evaluation of Attachment 1 to Annex B and paid a firm all-inclusive rate of up to \$15,000.00 taxes excluded based on the test results.</p> <p>Each point earned during the evaluation is valued at \$1,500.00 to a maximum total of all points of \$15,000.00 taxes excluded.</p>
4	<p>Flight Test Requirement Evaluation Table 2 of Attachment 1 of Annex B</p> <p>The contractor's proposed solution will be evaluated based on Table #2 Flight Test Requirement Evaluation of Attachment 1 to Annex B and paid a firm all-inclusive rate of up to \$22,500.00 taxes excluded based on the test results.</p> <p>Each point earned during the evaluation is valued at \$1,500.00 to a maximum total of all points of \$22,500.00 taxes excluded.</p>

2. Option Periods

For the Work described in Section 7.2 of Annex A, the Contractor will be paid the following firm, all-inclusive rate (excluding Travel and Living expenses and Applicable Taxes).

Canada will not reimburse crew daily fees for any flight day lost due to crew unavailability.

Canada will not reimburse equipment daily fees for any flight day lost due to maintenance.

Flight day definition; A flight day is any day where the weather and conditions are acceptable to conduct a surveillance flight during the designated surveillance period.

Year 1: Price if the option is exercised within 12 months from contract award.

Year 2: Price if the option is exercised within 13 to 24 months from contract award.

Year 3: Price if the option is exercised within 25 to 36 months from contract award.

2.1 Option Period 1

Item	Description	Firm All-Inclusive Price Taxes Excluded Year 1
5	Integration and removal of government furnished payload.	\$17,500.00

Item	Description	Total RPAS Crew Members	Firm All-inclusive Daily Individual Crew Rate Taxes Excluded Year 1	Total (Crew x Daily Rate)
6	RPAS Crew Includes total number of persons necessary for the safe management and operation of the RPAS while deployed.	_____	\$ _____	\$ _____

Item	Equipment Type	Firm All-inclusive Daily Rate Taxes Excluded Year 1
7	RPAS System RPAS System consists of air vehicle(s), ground control station(s), trailer/van, antennas, generators and equipment necessary for flight.	\$ _____
8	Consumables/Fuel Includes but not limited to all miscellaneous greases, oils, rags, maintenance items, spare parts, and fuel.	\$ _____

2.2 Option Period 2

Item	Description	Firm All-Inclusive Price Taxes Excluded Year 2
9	Integration and removal of government furnished payload.	\$17,500.00

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Item	Description	Total RPAS Crew Members	Firm All-inclusive Daily Individual Crew Rate Taxes Excluded Year 2	Total (Crew x Daily Rate)
10	RPAS Crew Includes total number of persons necessary for the safe management and operation of the RPAS while deployed.	_____	\$ _____	\$ _____

Item	Equipment Type	Firm All-inclusive Daily Rate Taxes Excluded Year 2
11	RPAS System RPAS System consists of air vehicle(s), ground control station(s), trailer/van, antennas, generators and equipment necessary for flight.	\$ _____
12	Consumables/Fuel Includes but not limited to all miscellaneous greases, oils, rags, maintenance items, spare parts, and fuel.	\$ _____

2.3 Option Period 3

Item	Description	Firm All-Inclusive Price Taxes Excluded Year 3
13	Integration and removal of government furnished payload.	\$17,500.00

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Item	Description	Total RPAS Crew Members	Firm All-inclusive Daily Individual Crew Rate Taxes Excluded Year 3	Total (Crew x Daily Rate)
14	RPAS Crew Includes total number of persons necessary for the safe management and operation of the RPAS while deployed.	_____	\$ _____	\$ _____

Item	Equipment Type	Firm All-inclusive Daily Rate Taxes Excluded Year 3
15	RPAS System RPAS System consists of air vehicle(s), ground control station(s), trailer/van, antennas, generators and equipment necessary for flight.	\$ _____
16	Consumables/Fuel Includes but not limited to all miscellaneous greases, oils, rags, maintenance items, spare parts, and fuel.	\$ _____

ATTACHMENT 1 TO ANNEX "B"
EVALUATION FORM

1. Platform Evaluation

As per Item 3 of Section 1 of Annex B

Item #	Requirement	Points
E1	Solution is at TRL 7 or higher.	<u>2</u>
E2	Is a Vertical Take-off and Landing RPAS system.	<u>1</u>
E3	Accommodates a payload 200mm x 300mm x 425mm	<u>1</u>
E4	Provides 110 Watts @ 12-14 Volts for flight duration.	<u>1</u>
E5	Equipped with ADS-B out transponder.	<u>1</u>
E6	Has redundant Command and Control (C2) links and safe lost link mitigation.	<u>2</u>
E7	Demonstrates ability to plan, integrate payload, flight operation and maintenance	<u>2</u>
Total Points		<u>10</u>

2. Flight Test Evaluation

As per Item 4 of Section 1 of Annex B

Item #	Requirement	Points
T1	Demonstrates BVLOS to a minimum of 80 nautical miles.	<u>1</u>
T2	Demonstrate KIAS cruise speed. Cruise speed of 70 - 79 KIAS - 1 point Cruise speed of 80 -90 KIAS - 2 points Cruise speed of > 90 KIAS - 3 points	<u>3</u>
T3	Demonstrates ability to operate at a minimum ceiling of 5000 feet Above Sea Level (ASL).	<u>1</u>
T4	Demonstrates ability to carrying a 6kg sensor payload. Payload capability of ≥ 6 kg (with 6 +1 hour endurance) - 1 point Payload capability of ≥ 10 kg (with 6 +1 hour endurance) - 2 points Payload capability ≥ 15 kg (with 6+ 1 hour endurance) -3 points	<u>3</u>
T5	Demonstrates endurance of 6 +1 hour with 6kg payload Endurance ≥ 6 +1 hours (with 6 kg payload) - 1 point Endurance ≥ 8 +1 hours (with 6 kg payload) - 2 points Endurance ≥ 10 +1 hours (with 6 kg payload) - 3 points	<u>3</u>
T6	Demonstrates RPAS is equipped with a Detect and Avoid System suitable for BVLOS or a proposed mitigation procedure.	<u>2</u>
T7	Demonstrates autopilot automated procedures for lost communications which incorporate a manual override/ and flight termination capabilities.	<u>2</u>
Total Points		<u>15</u>

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3. Evaluation Results

Items	Requirement	Points
E 1 - 7	Platform Evaluation	10
T 1 - 7	Flight Test Evaluation	15
Total Points		25

ANNEX "C"

BID ASSESSMENT WORKSHEETS

Bidder Name: _____

1. Technical Evaluation Worksheet

1.1 Mandatory Requirements

Item #	Mandatory Requirements	Pass	Fail
	Proposed solution must be at TRL 7 or higher.		
M1	Supporting documentation assessed against ISED definition of TRL 7, The RPAS must be at TRL7 in the VTOL configuration.		
	Must be a Vertical Take-off and Landing RPAS system.		
M2	The design configuration of the proposed RPAS is intended to Take-off and land vertically.		
	Must accommodate a payload 200mm x 300mm x 425mm		
M3	RPAS design drawings confirm an internal or external volume meeting specified dimensions.		
	Must provide 110 Watts @ 12-14 Volts for flight duration.		
M4	Design specification and test report confirms the energy source can deliver the required output for 6 +1 hours.		
	Must be equipped with ADSB out transponder.		
M5	Design installation drawing provided with supporting documentation including product specification of selected equipment.		
	Must have redundant Command and Control (C2) links and safe lost link mitigation.		
M6	Communication link design incorporates redundancy, and autopilot automated procedures for lost communications which incorporate a manual override/ and flight termination capabilities.		
	Must be able of a minimum operational ceiling of 5000 feet Above Sea Level (ASL)		
M7	Design specification or flight test report supports operation to a minimum ceiling meeting the requirement.		

1.2 Rated Requirement

Item #	Requirements	Points
R1	<p>Must be able to travel BVLOS to a minimum of 80 nautical miles.</p> <p>System design engineering and/or operational testing has substantiated the design capability for BVLOS. For RPAS that have flown BVLOS copies of flight plans and flight reports can be used to substantiate.</p> <p>Capable of BVLOS to a minimum of 80 nm but has not been demonstrated - 1 point Has flown BVLOS to 80 nautical miles - 2 points Has flown BVLOS at distances exceeding 80 nautical miles - 3 points</p>	<hr/> <p>3</p>
R2	<p>Must be able to reach a minimum of 70 KIAS cruise speed.</p> <p>System design engineering and operational testing has substantiated the design cruise speed of the RPAS. Supported by engineering or flight test data.</p> <p>Cruise speed of 70 - 79 KIAS - 1 point Cruise speed of 80 -90 KIAS - 2 points Cruise speed of > 90 KIAS - 3 points</p>	<hr/> <p>3</p>
R3	<p>Must be able to carry a minimum of a 6kg sensor payload.</p> <p>System design engineering and operational testing has substantiated the design payload capability of the RPAS. Supported by engineering or flight test data.</p> <p>Payload capability of ≥ 6 kg (with 6 +1 hour endurance) - 1 point Payload capability of ≥ 10 kg (with 6 +1 hour endurance) - 2 points Payload capability ≥ 15 kg (with 6+ 1 hour endurance) -3 points</p>	<hr/> <p>3</p>
R4	<p>Must be able to demonstrate a 6 +1 hour endurance with 6kg payload</p> <p>System design engineering and operational testing has substantiated the design endurance capability of the RPAS. Supported by engineering or flight test data.</p> <p>Endurance ≥ 6 +1 hours (with 6 kg payload) - 1 point Endurance ≥ 8 +1 hours (with 6 kg payload) - 2 points Endurance ≥ 10 +1 hours (with 6 kg payload) - 3 points</p>	<hr/> <p>3</p>

R5	<p>Contractor must demonstrate that they are able to conduct planning, payload integration, flight operation and maintenance</p> <p>Proposal includes a company profile and capabilities description including the services available and sub-contracted including the number of years that the company has been business.</p> <p>Capable but no experience in BVLOS operations - 1 point Less than 3 years experience in BVLOS operations - 2 points More than 3 years experience in BVLOS operations - 3 points</p>	<hr/> 3
R6	<p>RPAS must be equipped with a Detect and Avoid System suitable for BVLOS or acceptable mitigation.</p> <p>Proposal includes a description of the Detect And Avoid (DAA) solution proposed and System Safety Assessment including the proposed mitigation. The use of chase planes is not considered as an acceptable mitigation.</p> <p>DAA provided by use of acceptable mitigations - 1 point DAA provided by use of ground based systems - 2 points DAA incorporated onboard the Remotely Piloted Aircraft and visible in the Ground Control Station - 3 points</p>	<hr/> 3
Total Points		<hr/> 18
<p>Minimum Required: Bidders must achieve at least 1 point for each of the mandatory rated criterion R1 to R6 to be considered responsive.</p>		

2. Financial Evaluation Worksheet

For the sole purposes of evaluation, 30 will be used as the number of mission days and will use the information provided in the Financial Bid at Section 2 of Annex B.

2.1 Option 1 Calculation

		A	B	C
Item	Description	Total Daily Rate	Mission Days	Total A x B = C
6	RPAS Crew	\$ _____	30	\$ _____

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7	RPAS System	\$ _____	30	\$ _____
8	Consumables/Fuel	\$ _____	30	\$ _____
Option 1 Total				\$ _____

2.2 Option 2 Calculation

		A	B	C
Item	Description	Total Daily Rate	Mission Days	Total A x B = C
6	RPAS Crew	\$ _____	30	\$ _____
7	RPAS System	\$ _____	30	\$ _____
8	Consumables/Fuel	\$ _____	30	\$ _____
Option 2 Total				\$ _____

2.3 Option 3 Calculation

		A	B	C
Item	Description	Total Daily Rate	Mission Days	Total A x B = C
6	RPAS Crew	\$ _____	30	\$ _____
7	RPAS System	\$ _____	30	\$ _____
8	Consumables/Fuel	\$ _____	30	\$ _____
Option 3 Total				\$ _____

2.4 Travel and Living Expense Calculation

For the sole purposes of evaluation, the total for crew travel and living expenses will be calculated using the rate of \$300.00 per day and will use the information provided in the Financial Bid at Section2 of Annex B.

	A	B	C	D
Travel & Living Expense	Total Number of Crew	Rate per day per person	Mission Days	Total (A x B) x C = D
Year 1		\$300.00	30	\$ _____
Year 2		\$300.00	30	\$ _____
Year 3		\$300.00	30	\$ _____
Travel and Living Expense Total				\$ _____

2.5 Bid Evaluation Total

Item	Description	Total
2.1	Option 1 Total	\$ _____
2.2	Option 2 Total	\$ _____
2.3	Option 3 Total	\$ _____
2.4	Travel and Living Expense Total	\$ _____
Evaluated Bid Total		\$ _____

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ANNEX "D" to PART 3 OF THE BID SOLICITATION
ELECTRONIC PAYMENT INSTRUMENTS

The Bidder accepts to be paid by any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)

ANNEX "E"
BIDDER COMPLIANCE GRID

1. Mandatory Requirements

Item #	Requirements	Reference Page #	Bidders Comments
M1	Proposed solution must be at TRL 7 or higher. Supporting documentation assessed against ISED definition of TRL 7, The RPAS must be at TRL7 in the VTOL configuration.		
M2	Must be a Vertical Take-off and Landing RPAS system. The design configuration of the proposed RPAS is intended to Take-off and land vertically.		
M3	Must accommodate a payload 200mm x 300mm x 425mm RPAS design drawings confirm an internal or external volume meeting specified dimensions.		
M4	Must provide 110 Watts @ 12-14 Volts for flight duration. Design specification and test report confirms the energy source can deliver the required output for 6 +1 hours.		
M5	Must be equipped with ADSB out transponder. Design installation drawing provided with supporting documentation including product specification of selected equipment.		

<p>M6</p>	<p>Must have redundant Command and Control (C2) links and safe lost link mitigation.</p> <p>Communication link design incorporates redundancy, and autopilot automated procedures for lost communications which incorporate a manual override/ and flight termination capabilities.</p>		
<p>M7</p>	<p>Must be able of a minimum operational ceiling of 5000 feet Above Sea Level (ASL)</p> <p>Design specification or flight test report supports operation to a minimum ceiling meeting the requirement.</p>		

2. Mandatory Rated Requirement

Item #	Requirements	Reference Page #	Bidders Comments
<p>R1</p>	<p>Must be able of BVLOS to a minimum of 80 nautical miles.</p> <p>System design engineering and/or operational testing has substantiated the design capability for BVLOS. For RPAS that have flown BVLOS copies of flight plans and flight reports can be used to substantiate.</p>		
<p>R2</p>	<p>Must be able of 70 KIAS cruise speed.</p> <p>System design engineering and operational testing has</p>		

	substantiated the design cruise speed of the RPAS. Supported by engineering or flight test data.		
R3	Must be able of carrying a 6kg sensor payload. System design engineering and operational testing has substantiated the design payload capability of the RPAS. Supported by engineering or flight test data.		
R4	Must be able of 6 +1 hour endurance with 6kg payload System design engineering and operational testing has substantiated the design endurance capability of the RPAS. Supported by engineering or flight test data.		
R5	Contractor must be able to conduct planning, payload integration, flight operation and maintenance Proposal includes a company profile and capabilities description including the services available and sub-contracted including the number of years that the company has been in business.		
R6	RPAS must be equipped with a Detect and Avoid System suitable for BVLOS or acceptable mitigation. Proposal includes a description of the DAA solution proposed and System Safety Assessment including the proposed mitigation. The use		

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	of chase planes is not considered as an acceptable mitigation.		
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