



**Royal Canadian Mounted Police
Gendarmerie Royale du Canada**

**RETOURNER LES
SOUMISSIONS À:
RETURN BIDS TO:
Bid Receiving/Réception des
sousmissions**

RCMP
Procurement and Material Management
Atlantic Region
1595 Bedford Highway
Suite 600, Bedford, Nova Scotia
B4A 3Y4

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

Proposal to: Royal Canadian
Mounted Police
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 therefore.

Proposition aux: Gendarmerie
royale du Canada

Nous offrons par la présente de
vendre à Sa Majesté l 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 – Commentaries
Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur**

**Telephone No.
no de téléphone:**

Canada

Title-Sujet Tactical UAV – RCMP Atlantic Region	
Solicitation No. - No. de l'invitation M4500-1304334	Date 2013-02-22
Client Reference No. - No. De Référence du Client 0201304334	
Solicitation Closes - L'invitation prend fin at 02:00 PM on 2013-03-11	
F.O.B. - F.A.B. See Herien Voir aux présentes	
Address Enquiries to: - Adresser toutes questions à: Jennifer Legere	
Telephone No. - No de téléphone 902-426-4447	Fax No. - N° de FAX: 902-426-7136
Destination of Goods and Services: Destinations des biens et services: Royal Canadian Mounted Police See herein	
Delivery Required - Livraison exigée: See Herein Voir aux présentes	Delivery Offered – Livraison proposée See Herein Voir aux présentes
Name and title of person authorized to sign on behalf of Vendor/Firm - Nom et titre de la personne autorisée à signer au nom du fournisseur/de l'entrepreneur	
_____	_____
Signature	Date



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PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The requirement is detailed under Annex A.

3. Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

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

Revision to Departmental Name: As this solicitation is issued by RCMP, any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this solicitation, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

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 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Section 01 – Code of Conduct and Certification – Bid of 2003 referenced above is amended as follows:

Delete subsection 1.4 and 1.5 in their entirety.

1.1 SACC Manual Clauses

A3050T Canadian Content Definition (2010-01-11)

B3000T Equivalent Products (2006-06-16)

2. Submission of Bids

Bids must be submitted only to Royal Canadian Mounted Police (RCMP) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

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



3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

4. Applicable Laws

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

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

1. Bid Preparation Instructions

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (two (2) hard copies)

Section II: Financial Bid (one (1) hard copy)

Section III: Certifications (one (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-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 at Annex B. The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

1.1 Exchange Rate Fluctuation

C3011T (2010-01-11), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.
- (c) The evaluation team will determine first if there are three (3) or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than three responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

Please refer to Annex C.



1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded, FOB destination, Canadian customs duties and excise taxes included.

2. Basis of Selection

A0031T Basis of Selection - Mandatory Technical Criteria (2010-08-16)

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

1.1.1 By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

2. Additional Certifications Precedent to Contract Award

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



Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

2.1 Federal Contractors Program – Certification

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- a.() is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- b.() is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- c.() is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- d.() has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: _____ .

Further information on the FCP is available on the HRSDC Web site.

2.2 Former Public Servant Certification

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

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 FPS in receipt of a pension, as applicable:

a. name of former public servant;

b. date of termination of employment or retirement from the Public Service.

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

Work Force Reduction Program

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of a work force reduction program? Yes () No ()

If so, the Bidder must provide the following information:

a. name of former public servant;

b. conditions of the lump sum payment incentive;

c. date of termination of employment;

d. amount of lump sum payment;

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

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

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

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including the Goods and Services Tax or Harmonized Sales Tax.



2.3 Price Certification

The Bidder certifies that the price proposed:

- a) is not in excess of the lowest price charged anyone else, including the Bidder's most favoured customer, for the like quality and quantity of the goods, services or both; and
- b) does not include an element of profit on the sale in excess of that normally obtained by the Bidder on the sale of goods, services or both of like quality and quantity.

Signature _____ Date _____

2.4 Canadian Content Certification

This procurement is conditionally limited to Canadian goods.

Subject to the evaluation procedures contained in the request for proposal, the Bidder acknowledges that only offers with a certification that the good(s) offered are Canadian goods, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the offer will result in the good(s) offered being treated as non-Canadian goods.

The Bidder certifies that:

() a minimum of 80 percent of the total price for the proposal consists of Canadian goods as defined in paragraph 1 of clause A3050T.

For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult Annex 3.6.(9), Example 2, of the Supply Manual.

Signature _____ Date _____



PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement associated with the requirement.

2. Requirement

The Contractor must provide the tactical UAV in accordance with the Requirement at Annex "A".

3. Standard Clauses and Conditions

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

Revision to Departmental Name: As this contract is issued by RCMP, any reference to Public Works and Government Services Canada or PWGSC or its Minister contained in any term, condition or clause of this contract, including any individual SACC clauses incorporated by reference, will be interpreted as reference to RCMP or its Minister.

3.1 General Conditions

2010A (2012-11-19), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

Section 29 - Code of Conduct and Certifications - Contract of 2010A referenced above is amended as follows:

Delete subsection 29.4 in its entirety.

3.2 Supplemental General Conditions

4003 Licensed Software (2010-08-16)

4004 Maintenance and Support Services for Licensed Software (2010-08-16)

4. Term of Contract

4.1 Delivery Date

All the deliverables must be received on or before March 28, 2013.

4.2 Option to Purchase Additional Goods and Services

The Contractor grants to Canada the option to purchase additional goods and services under the same terms and conditions herein, up to and including March 31 2014. Please refer to Annexes A and B.

Canada may exercise this option at any time by sending a written notice to the Contractor at least seven (7) calendar days before the Contract expiry date. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.



5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Jennifer Legere
Senior Contracting Manager
RCMP Atlantic Region Procurement Services
1595 Bedford Highway, Suite 600
Halifax, Nova Scotia B4A 3Y4
Tel: 902-426-4447
Fax: 902-426-7136
E-mail: jennifer.legere@rcmp-grc.gc.ca

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

5.2 Project Authority

The Project Authority for the Contract is: *To be determined at Contract Award.*

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

5.3 Contractor's Representative

Name of Authorized Representative: _____

Legal Company Name: _____

Operating Name (if different from above): _____

Mailing Address: _____

Telephone: _____

Facsimile: _____

E-mail: _____

6. Payment

6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price, as specified in Annex B, for a cost of \$ _____ (*Amount to be inserted at contract award*). Customs duties are excluded and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.



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

6.2 SACC Manual Clauses

C6000C (2011-05-16) Limitation of Price
H1000C (2008-05-12) Single Payment

7. Invoicing Instructions

7.1. 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.

7.2. Invoices must be distributed as follows:

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

8. Certifications

8.1 Compliance

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

8.2 SACC Manual Clauses

A3060C Canadian Content Certification (2008-05-12)

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. *(To be inserted by Bidder)*

10. 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 4003 Licensed Software (2010-08-16) and 4004 Maintenance and Support Services for Licensed Software (2010-08-16);
- (c) the general conditions 2010A (2012-11-19), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;



**Royal Canadian Mounted Police
Gendarmerie Royale du Canada**

Government of Canada Gouvernement du Canada

Solicitation No./ No del'invitation:
M4500-1304334

(f) the Contractor's bid dated _____ (*To be inserted by Bidder*)

11. SACC Manual Clauses

B1501C Electrical Equipment (2006-06-16)

G1005C Insurance (2008-05-12)



ANNEX "A" REQUIREMENT

The Royal Canadian Mounted Police (RCMP) has a requirement for the provision of a tactical micro-UAV (unmanned aerial vehicle), as described herein, for J Division (New Brunswick).

The UAV must meet or exceed the mandatory requirements listed below:

1. The system **must** be able to take off and land vertically (VTOL).
2. The system **must** be able to hover and stare while in the air in a fixed position with +/- one (1) meter accuracy for ease of use by operator.
3. The system **must** have an automatic land and automatic take off capability.
4. Power source:
 - 4.1. Lithium battery (rechargeable);
 - 4.2. The time to resume operation after replacement of a battery (turnaround time) **must** be a maximum of two (2) minutes.
5. The entire system including ground control station, battery, payload and air vehicle **must** be able to be packed and hand carried by one single operator.
6.
 - 6.1 The entire equipment/system **must** weigh less than twelve (12) pounds (lbs.).
 - 6.2 The flight system (the portion of the equipment that is airborne) **must** weigh less than three (3) lbs.
7. The air vehicle system, including control of air vehicle and control of camera, **must** be able to be operated by a single operator.
8. Set up and launch time of system must be less than 3 minutes
9. System **must** use a standard map based system such as Google Maps or Microsoft Bing Maps *or equivalent* as a navigational control tool.
10. Maps must be able to be stored on the system so as not to require internet connection in-field (e.g. offline operation).
11. Environmental Conditions: Equipment **must** be weather-proof and able to operate in various climactic conditions including the following:
 - 11.1. Equipment **must** be able to operate in a temperature range of -35°C to +50°C.
 - 11.2. Equipment **must** be able to operate in sustained winds of a maximum of 50 kilometers/hour (km/hr) and wind gusts of a minimum of 85 km/hr.
 - 11.3. Equipment **must** be able to operate in 100% humidity, including rain and snow.
12. Camera, Video feed & Photographs:
 - 12.1. Camera **must** have a minimum of 10 times optical zoom.
 - 12.2. Camera zoom **must** be controllable from the ground control station in real time by the operator.
 - 12.3. Equipment **must** have a thermal camera with a minimum resolution of 640x480.
 - 12.4. Real-time video stream from air vehicle to operator **must** be streamed in digital format.
 - 12.5. Video feed from system **must** be able to be streamed to the web for remote observation of data/video feed (i.e. by a remote command center or operation)
 - 12.6. System **must** be able to encrypt digital video stream.
 - 12.7. All photographs taken by aerial vehicle must be geo-referenced including the following information:



- 12.7.1. Date
- 12.7.2. Time
- 12.7.3. GPS coordinates
- 12.7.4. Additional camera information including but not limited to Pitch/Roll/Yaw, exposure, ISO, and other camera settings **must** be captured by the system for use in photogrammetry software systems.
- 12.8. Image accuracy **must** be capable of a minimum of one (1) centimetre/ pixel.
- 12.9. Images must be geo-tagged for use in ortho-mosaic software for creation of tactical package maps
13. Parts such as arms, legs and payloads **must** be interchangeable in the field without tools, allowing for in the field maintenance.
14. System **must** be able to be remotely supported including in the field software upgrades.
15. Flight logs **must** be automatically recorded. Flight logs **must** include the following information regarding the flight:
 - 15.1. Date;
 - 15.2. Time;
 - 15.3. Location;
 - 15.4. Complete flight path, including any faults encountered during the flight.
16. Flight plans
 - 16.1. System **must** be able to create flight plans. Flight plans **must** have the ability to specify:
 - 16.1.1. Way points as part of a flight path;
 - 16.1.2. Way points the air vehicle will autonomously fly to without being part of the flight path;
 - 16.1.3. Pre-planned camera targets;
 - 16.1.4. **Must** be able to create flight plans in real time while the system is in the air.
 - 16.1.5. Waypoints in flight plan **must** be able to be specified in the following format (minimum):
 - 16.1.5.1. Latitude/longitude/decimal degrees;
 - 16.1.5.2. Latitude/longitude decimal seconds.
 - 16.2. User/system **must** be able to pause waypoint flights for ad-hoc mission scenarios (i.e. pause a grid search to focus on a key area during a Search and Rescue mission). Mission **must** then be able to be resumed.
17. System **must** have built-in fault tolerance including a minimum of but not limited to the following features:
 - 17.1. If low battery situation arises, system **must** automatically fly back to “home” position and land;
 - 17.2. If loss of communication between air vehicle and ground control station occurs, system **must** automatically fly back to “home” position and land;
 - 17.3. If user defined wind thresholds are exceeded, system **must** automatically fly back to home position and land.
18. System **must** have a stabilized camera payload system with 3-axis stabilization (pitch/roll/yaw) for maximum stabilized image.
19. System **must** have a High-definition (HD) payload with a minimum of 11 Mega-pixel (MP) still images and 1080 pictures at 30 frames per second (fps) video.
20. System **must** provide real-time telemetry data for log book purposes including the following:



- 20.1. Wind speed;
- 20.2. Wind direction;
- 20.3. System flight speed
- 20.4. Flight elevation;
21. System **must** be able to identify a latitude/longitude location of a target on the ground (e.g. ground position of an object in a wooded area).
22. System **must** have an adjustable height of a minimum of 0 metres to a maximum of 500 metres above ground level.
 - 22.1. Altitude **must** be controlled to an accuracy of within a minimum of one (1) metre.
23. System **must** have an operational range of a minimum of 500 metres.
24. System **must** have an operational time of a minimum of 20 minutes.
25. The equipment/system **must not** cause any electromagnetic interference with other RCMP equipment, such as radios or radar.
26. The Contractor **must** provide all parts, equipment, accessories and/or peripherals required for the normal operation of the UAV, including but not limited to batteries, battery charger, carrying case, and operator's manual (in English).
27. Option: Training:
 - 27.1. The Contractor **must** be able to provide training to a maximum of **two** (2) equipment users/operators per training session, on an as and when requested basis, within one year after the equipment is received.
 - 27.2. A typical operator **must** be able to be trained within a maximum of two days.
28. Option: Technical Support
 - 28.1. The Contractor **must** be able to provide unlimited telephone and e-mail technical support on their product during regular business hours (Monday to Friday 800 hours to 1600 hours Atlantic Time) for one year after the equipment is received.
 - 28.2. The Contractor **must** be able to provide unlimited regular software upgrades as they become available, for one year after the equipment is received.
 - 28.3. The Contractor **must** be able to provide unlimited remote diagnostic support for one year after the equipment is received.



ANNEX "B"
Basis of Payment

Bidders must complete the pricing table below. Bidders must quote a firm, all inclusive price, including associated overhead, profit and materials, travel and living expenses, required to complete the good and services as described in the Requirement at Annex A. Price quoted is FOB destination and exclusive of HST/GST.

Description	Delivery Address FOB Destination	All inclusive Unit Price (in accordance with Annex A)	Quantity (EA)	Extended Price
Supply and Delivery of one (1) Tactical UAV in accordance with Annex A.	RCMP J Division 1445 Regent Street Fredericton NB E3B 4Z8		1	
Options*				
Technical Support (for each UAV purchased)	See herein.		LOT	
Training (for each UAV purchased)	To be determined. (New Brunswick – non-RCMP site)		3**	
One (1) additional UAV unit by March 31, 2014	To be determined. (Atlantic Region)		1	
One (1) additional UAV unit by March 31, 2014	To be determined. (National)		1	
Evaluated Total				

*Options will be exercised by the Contracting Authority via Contract Amendment.

** Up to a maximum of three (3) sessions may be requested, and not all sessions may be requested at the same time.



Annex C
Mandatory Requirements and Evaluation Grid

Bidders must complete the table for all criteria below for the tactical micro-UAV. For each item under the description, indicate whether the product meets the requirement, and identify the page(s) where each mandatory or minimum specification is demonstrated in the technical documentation provided with the bid. Canada reserves the right to verify any and all information relating to mandatory requirements prior to contract award.

Criterion	Description	✓ Met/Not Met	Page Number Reference
1	The system must be able to take off and land vertically (VTOL).	<input type="checkbox"/>	___
2	The system must be able to hover and stare while in the air in a fixed position with +/- one (1) meter accuracy for ease of use by operator.	<input type="checkbox"/>	___
3	The system must have an automatic land and automatic take off capability.	<input type="checkbox"/>	___
4	Power source: 4.1 Lithium battery (rechargeable). 4.2 The time to resume operation after replacement of a battery (turnaround time) must be a maximum of two (2) minutes.	<input type="checkbox"/> 4.1 <input type="checkbox"/> 4.2	4.1___ 4.2___
5	The entire system including ground control station, battery, payload and air vehicle must be able to be packed and hand carried by one single operator.	<input type="checkbox"/>	___
6	6.1 The entire equipment/system must weigh less than twelve (12) pounds (lbs.). 6.2 The flight system (the portion of the equipment that is airborne) must weigh less than three (3) lbs.	<input type="checkbox"/> 6.1 <input type="checkbox"/> 6.2	6.1___ 6.2___
7	The air vehicle system, including control of air vehicle and control of camera, must be able to be operated by a single operator.	<input type="checkbox"/>	___
8	Set up and launch time of system must be less than 3 minutes.	<input type="checkbox"/>	___
9	System must use a standard map based system such as Google Maps or Microsoft Bing Maps <i>or equivalent</i> as a navigational control tool.	<input type="checkbox"/>	___
10	Maps must be able to be stored on the system so as not to require internet connection in-field (e.g. offline operation).	<input type="checkbox"/>	___
11	Environmental Conditions: Equipment must be weather-proof and able to operate in various climactic conditions including the following:		



Criterion	Description	✓ Met/Not Met	Page Number Reference
	<p>11.1 Equipment must be able to operate in a temperature range of -35°C to +50°C.</p> <p>11.2 Equipment must be able to operate in sustained winds of a maximum of 50 kilometers/hour (km/hr) and wind gusts of a minimum of 85 km/hr.</p> <p>11.3 Equipment must be able to operate in 100% humidity, including rain and snow.</p>	<p><input type="checkbox"/> 11.1</p> <p><input type="checkbox"/> 11.2</p> <p><input type="checkbox"/> 11.3</p>	<p>11.1__</p> <p>11.2__</p> <p>11.3__</p>
<p>12</p>	<p>Camera, Video feed & Photographs:</p> <p>12.1 Camera must have a minimum of 10 times optical zoom.</p> <p>12.2 Camera zoom must be controllable from the ground control station in real time by the operator.</p> <p>12.3 Equipment must have a thermal camera with a minimum resolution of 640x480.</p> <p>12.4 Real-time video stream from air vehicle to operator must be streamed in digital format.</p> <p>12.5 Video feed from system must be able to be streamed to the web for remote observation of data/video feed (i.e. by a remote command center or operation).</p> <p>12.6 System must be able to encrypt digital video stream.</p> <p>12.7 All photographs taken by aerial vehicle must be geo-referenced including the following information:</p> <p>12.7.1 Date</p> <p>12.7.2 Time</p> <p>12.7.3 GPS coordinates</p> <p>12.7.4 Additional camera information including but not limited to Pitch/Roll/Yaw, exposure, ISO, and other camera settings must be captured by the system for use in photogrammetry software systems.</p> <p>12.8 Image accuracy must be capable of a minimum of one (1) centimetre/ pixel.</p> <p>12.9 Images must be geo-tagged for use in ortho-mosaic software for creation of tactical package maps.</p>	<p><input type="checkbox"/> 12.1</p> <p><input type="checkbox"/> 12.2</p> <p><input type="checkbox"/> 12.3</p> <p><input type="checkbox"/> 12.4</p> <p><input type="checkbox"/> 12.5</p> <p><input type="checkbox"/> 12.6</p> <p><input type="checkbox"/> 12.7</p> <p><input type="checkbox"/> 12.7.1</p> <p><input type="checkbox"/> 12.7.2</p> <p><input type="checkbox"/> 12.7.3</p> <p><input type="checkbox"/> 12.7.4</p> <p><input type="checkbox"/> 12.8</p> <p><input type="checkbox"/> 12.9</p>	<p>12.1__</p> <p>12.2__</p> <p>12.3__</p> <p>12.4__</p> <p>12.5__</p> <p>12.6__</p> <p>12.7__</p> <p>12.7.1__</p> <p>12.7.2__</p> <p>12.7.3__</p> <p>12.7.4__</p> <p>12.8__</p> <p>12.9__</p>
<p>13</p>	<p>Parts such as arms, legs and payloads must be interchangeable in the field without tools, allowing for in the field maintenance.</p>	<p><input type="checkbox"/></p>	<p>__</p>
<p>14</p>	<p>System must be able to be remotely supported</p>	<p><input type="checkbox"/></p>	<p>__</p>



Criterion	Description	✓ Met/Not Met	Page Number Reference
	including in the field software upgrades.		
15	Flight logs must be automatically recorded. Flight logs must include the following information regarding the flight: 15.1 Date; 15.2 Time; 15.3 Location; 15.4 Complete flight path, including any faults encountered during the flight.	<input type="checkbox"/> 15.1 <input type="checkbox"/> 15.2 <input type="checkbox"/> 15.3 <input type="checkbox"/> 15.4	15.1__ 15.2__ 15.3__ 15.4__
16	Flight plans 16.1 System must be able to create flight plans. Flight plans must have the ability to specify: 16.1.1 Way points as part of a flight path; 16.1.2 Way points the air vehicle will autonomously fly to without being part of the flight path; 16.1.4 Pre-planned camera targets; 16.1.5 Must be able to create flight plans in real time while the system is in the air. 16.1.6 Waypoints in flight plan must be able to be specified in the following format (minimum): 16.1.6.1 Latitude/ longitude/ decimal degrees; 16.1.6.2 Latitude/longitude decimal seconds. 16.2 User/system must be able to pause waypoint flights for ad-hoc mission scenarios (i.e. pause a grid search to focus on a key area during a Search and Rescue mission). Mission must then be able to be resumed.	<input type="checkbox"/> 16.1 <input type="checkbox"/> 16.1.1 <input type="checkbox"/> 16.1.2 <input type="checkbox"/> 16.1.3 <input type="checkbox"/> 16.1.4 <input type="checkbox"/> 16.1.5 <input type="checkbox"/> 16.1.6 <input type="checkbox"/> 16.1.6.1 <input type="checkbox"/> 16.1.6.2 <input type="checkbox"/> 16.2	16.1__ 16.1.1__ 16.1.2__ 16.1.3__ 16.1.4__ 16.1.5__ 16.1.6__ 16.1.6.1__ 16.1.6.2__ 16.2__
17	System must have built-in fault tolerance including a minimum of but not limited to the following features: 17.1 If low battery situation arises, system must automatically fly back to “home” position and land; 17.2 If loss of communication between air vehicle and ground control station occurs, system must automatically fly back to “home” position and land; 17.3 If user defined wind thresholds are exceeded, system must automatically fly back to home position and land.	<input type="checkbox"/> 17.1 <input type="checkbox"/> 17.2 <input type="checkbox"/> 17.3	17.1__ 17.2__ 17.3__
18	System must have a stabilized camera payload system	<input type="checkbox"/>	__



Criterion	Description	✓ Met/Not Met	Page Number Reference
	with 3-axis stabilization (pitch/roll/yaw) for maximum stabilized image.		
19	System must have a High-definition (HD) payload with a minimum of 11 Mega-pixel (MP) still images and 1080 pictures at 30 frames per second (fps) video.	<input type="checkbox"/>	___
20	System must provide real-time telemetry data for log book purposes including the following: 21.1 Wind speed; 21.2 Wind direction; 21.3 System flight speed; 21.4 Flight elevation.	<input type="checkbox"/> 20.1 <input type="checkbox"/> 20.2 <input type="checkbox"/> 20.3 <input type="checkbox"/> 20.4	20.1___ 20.2___ 20.3___ 20.4___
21	System must be able to identify a latitude/longitude location of a target on the ground (e.g. ground position of an object in a wooded area).	<input type="checkbox"/>	___
22	System must have an adjustable height of a minimum of 0 metres to a maximum of 500 metres above ground level. 22.1 Altitude must be controlled to an accuracy of within a minimum of one (1) metre.	<input type="checkbox"/> 22.1	22.1___
23	System must have an operational range of a minimum of 500 metres.	<input type="checkbox"/>	___
24	System must have an operational time of a minimum of 20 minutes.	<input type="checkbox"/>	___
25	The equipment/system must not cause any electromagnetic interference with other RCMP equipment, such as radios or radar.	<input type="checkbox"/>	___
26	The Contractor must provide all parts, equipment, accessories and/or peripherals required for the normal operation of the UAV, including but not limited to batteries, battery charger, carrying case, and operator's manual (in English).	<input type="checkbox"/>	___
27	The bidder must demonstrate that they are an authorized manufacturer/distributor of the product.	<input type="checkbox"/>	___
28	<i>Option: Training</i> 28.1 The Contractor must be able to provide training to a maximum of two (2) equipment users/operators per training session, on an as and when requested basis, within one year after the equipment is received. 28.2 A typical operator must be able to be trained within a maximum of two days.	<input type="checkbox"/> 28.1 <input type="checkbox"/> 28.2	28.1___ 28.2___
29	<i>Option: Technical Support</i> 29.1 The Contractor must be able to provide	<input type="checkbox"/> 29.1	29.1___



Criterion	Description	✓ Met/Not Met	Page Number Reference
	<p>unlimited telephone and e-mail technical support on their product during regular business hours (Monday to Friday 800 hours to 1600 hours Atlantic Time) for one year after the equipment is received.</p> <p>29.2 The Contractor must be able to provide unlimited regular software upgrades as they become available, for one year after the equipment is received.</p> <p>29.3 The Contractor must be able to provide unlimited remote diagnostic support for one year after the equipment is received.</p>	<p><input type="checkbox"/> 29.2</p> <p><input type="checkbox"/> 29.3</p>	<p>29.2__</p> <p>29.3__</p>
<p>30</p>	<p>The bidder must provide a minimum of two (2) detailed relevant examples where the Small Unmanned Aerial System (SUAS/UAV) has been deployed. Examples must be <i>relevant</i> (police or military organizations (other than/outside of RCMP) for surveillance and/or tactical applications) and <i>recent</i> (within the last three (3) years). Please refer to Annex D.</p>	<p><input type="checkbox"/></p>	<p>__</p>



Annex D – 30. Bidder Examples

Bidders may use the following as a guide to meet the requirements for Criterion 30 of Annex C. Examples **must** be *relevant* (police or military organizations (other than/ outside of RCMP, for surveillance and/or tactical applications) and *recent* (within the last three (3) years). Descriptions should be limited to one page. Examples will be evaluated on a Pass/Fail basis.

Client: _____

Geographic Location: _____

Description of circumstances under which UAV was used: _____

Outcome: _____

