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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into six 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 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work, Basis of Payment and the Electronic Payment Instruments. The Attachments include Mandatory Technical Criteria 2 (MT2) Technical Requirement.

1.2 Summary

The Airport Drone Mitigation, Integration, and Response Experiments (ADMIRE) project will validate draft operational procedures for airport drone response, acquire suitable counter-drone and situation awareness capabilities, create realistic experiments with appropriate evaluation metrics, engage relevant operational stakeholders, conduct the experiments at operational airports, and provide a report on the results.

To provide temporary provision of key operational capability, a system integrating sensor and location information into a 3D representation of the situation. The 3D Situational Awareness System will be used by operational command, during ADMIRE Exercise 2, to maintain awareness of the status and location of threat and friendly air and land vehicles and personnel, so as to direct the deployment of assets during the exercise.

Data received from a recently completed Tabletop Exercise and functional exercise will provide guidance to refine operational requirements to support the final Exercise 2 at the Ottawa International Airport. It is intended that the 3D SA system be modified based on requirements analysis from Exercise 1 and the two TTXs for full functionality at Exercise 2.

The Contract will be in effect from date of Contract to December 31, 2021.

The requirement is subject to a preference for Canadian services.

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

Solicitation No. - N° de l'invitation
W7714-217891/001/sv
Client Ref. No. - N° de réf. du client
W7714-217891

Amd. No. - N° de la modif.
File No. - N° du dossier
W7714-217891/001/sv

Buyer ID - Id de l'acheteur
054sv
CCC No./N° CCC - FMS No./N° VME

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.

Bidders must 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:

- a. name of former public servant;
- b. date of termination of employment or retirement from the Public Service.

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

Work Force Adjustment Directive

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of the Work Force Adjustment Directive? **Yes** () **No** ()

If so, the Bidder must provide the following information:

- a. name of former public servant;
- b. conditions of the lump sum payment incentive;
- c. date of termination of employment;
- d. amount of lump sum payment;
- e. rate of pay on which lump sum payment is based;
- f. period of lump sum payment including start date, end date and number of weeks;
- g. number and amount (professional fees) of other contracts subject to the restrictions of a work force adjustment program.

2.4 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 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 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

The Bidder must 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 (with video - format compatible with windows media player 2013)
- Section II: Financial Bid
- Section III: Certifications
- Section IV: Additional Information

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 and describe their approach 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.

Section II: Financial Bid

- 3.1.1** Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet detailed below, and provided in spreadsheet format on the buyandsell.gc.ca Notice, entitled "**BID PRESENTATION SHEET**":

BID PRESENTATION SHEET					
<p>All costs should be in accordance with Contract Cost Principles 1031-2 Firm milestone payments - comprised ONLY of RESOURCES. BIDS will not be considered if there are rates for Material and supplies, travel or rentals. Firm price per milestone payments, inclusive of overhead and profit.</p> <p>[identify each resource by their labour category - ie: developer (junior, intermediate, senior)]</p>					
Milestone number	Milestone Description	Labour Resource Category	Labor - Level of Effort - (h)	Rate (\$/h)	Total (\$)
1	ADMIRE 3D SA Requirements and Detailed Design				0
					0
					0
					0
					0

					0
2	Modify 3D SA System				0
					0
					0
					0
					0
					0
3	Support Exercise 2 and Final Report				0
					0
					0
					0
					0
					0
					0

Total Estimated Cost to Canada: _____
(Applicable Taxes Extra)

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

If Annex "C" 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.

3.1.3 Exchange Rate Fluctuation

Requests for exchange rate fluctuation risk mitigation are not permitted as per C3011T (2013-11-06) Exchange Rate Fluctuation.

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical, financial and evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.
- (c) The evaluation team will determine if there are two (2) or more bids with a valid Canadian content certification with the bids coming from two or more Bidders that are not affiliated within the meaning used in the Competition Act, R.S.C., 1985, c. C-34. In that event, only those bids with a valid certification will be eligible to be awarded a contract; otherwise, all bids will be eligible. If at any point in the evaluation process it is found, whether by determination of invalidity of certifications, determination that bids are non-responsive or withdrawal of bids by Bidders, that there are no longer two (2) or more responsive bids with a valid certification, then all responsive bids will be eligible to be awarded a contract. Canada may conduct the validation of Canadian content certifications at any time in the evaluation process including doing so concurrently with other steps.

4.1.1 Technical Evaluation

4.1.1.1. Mandatory Technical Criteria

Bidders must demonstrate they meet the following mandatory criteria. Failure to meet any of the mandatory criteria will render the bid non-compliant and it will be given no further consideration.

	CRITERIA	MET	NOT MET
MT1	<p>The Bidder must provide evidence that they have an existing 3D Situation Awareness Display (SAD) system and accessories available for temporary provision at the time of bid.</p> <p>In order to demonstrate this criteria, the Bidder must provide:</p> <ol style="list-style-type: none"> 1. scanned copy of the brochures and/or a dated url website link if available on line. 2. provide a copy of an invoice for a sale of the proposed 3D SAD in the past two years from the solicitation closing date. 		
MT2	<p>The Bidder's system must meet all of the specifications detailed in the Technical Requirements in Attachment 1 to Mandatory Technical Criteria 2 (MT2)</p> <p>In order to demonstrate this criteria, the Bidder must provide:</p> <ol style="list-style-type: none"> 1. Scanned copy and/or website of System Data Sheet and/or brochure 		
MT3	<p>The Bidder must have project related experience conducting each of the following:</p> <ol style="list-style-type: none"> 1. evaluation of user requirements for a Situation Awareness Display (SAD); modification of the SAD to meet user requirements; 2. integration of the SAD with sensors; and 3. field evaluation of SAD capabilities. 		

	<p>In order to demonstrate this criteria, the Bidder must provide:</p> <ol style="list-style-type: none"> Evidence in the form of a summary of the project objective and what was completed. 		
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4.1.1.2 Point Rated Technical Criteria

A minimum of 60 points is required and there is a Maximum score of 80 points

	Criterion	Criterion Supporting information	Evaluation Schema	Points Awarded
PR1	<p>The Bidder and/or one or more of its proposed resources has experience in developing situation awareness capabilities to meet operational requirements in each of the following areas:</p> <ul style="list-style-type: none"> software engineering; user interface design; display and sensor integration; <p>and,</p> <ul style="list-style-type: none"> airspace management or unmanned aerial vehicle (UAV) operational experience 	<p>The proposal must provide each of the following information:</p> <ol style="list-style-type: none"> Name of proposed resource (including Bidder if Bidder is the proposed resource). Role in development of the situation awareness. List of activities undertaken in the project. 	<p>The Bidders team experience is not evident in three or more areas of the criterion.</p> <p>0 points</p> <p>The Bidders team experience is not evident in one or two areas of the criterion.</p> <p>10 points</p> <p>The Bidders team experience is evident in all four areas of the criterion and the team has substantial technical and operational experience in the hardware and software development of Situation Awareness Display (SAD) to meet operational requirements.</p> <p>20 points</p>	
PR2	<p>In the last 5 years from the solicitation closing date, the Bidder and/or one or more of its proposed resources has experience in integrating sensors or other components from third-party vendors within the Bidder's Situation Awareness Display (SAD).</p>	<p>The proposal should provide the following information:</p> <ol style="list-style-type: none"> Type of sensor/component; Purpose of the integration; Work necessary to do the integration; and Result. 	<p>No integration demonstrated.</p> <p>0 points</p> <p>Fewer than five sensor/components integrated, or little and / or inadequate details provided regarding the above-listed aspects for one or more of the provided integrations.</p> <p>10 points</p> <p>Five or more integrations, including sufficient information about the above-listed aspects for all provided integrations.</p> <p>20 points</p>	

	Criterion	Criterion Supporting information	Evaluation Schema	Points Awarded
PR3	The Bidder has conducted field demonstrations of a prototype hardware and software system.	The proposal must provide the following information for each demonstration 1. Location; 2. Date; and 3. Field demonstration objective.	Insufficient evidence of experience 0 points Demonstrated experience through one demonstration, including all supporting information 10 points Demonstrated experience through more than one demonstration, including all supporting information for each. 20 points	
PR4	For each capability, the Bidder has provided a demonstration video (format compatible with windows media player 2013) submitted with the Bid (URL). The Bidders proposed Situation Awareness Display (SAD) should have the capabilities listed below, demonstrated in the provided video: 1. Input Asterix radar, ADS-B, ATM, meteorological, geomatics, Unmanned Aerial System (UAS) control data, FAA and NAV Canada aeronautical data; 2. Warnings and alerts of traffic or airspace conflict; 3. Display UAS video; 4. Control from the SAD of a third-party attached device, eg, radar; and 5. Ability to switch between 2D and 3D views and pan/zoom/tilt the view		The bidder's video demonstrates that they have less than three of the capabilities listed. 0 points The bidder's video demonstrates that they have at least three of the capabilities listed. 10 points The bidder's video demonstrates all listed capabilities. 20 points	

4.2 Basis of Selection

4.2.1 SACC Manual Clause [A0035T](#), Basis of Selection – Lowest Price Per Point

1. To be declared responsive, a bid must:

- a. comply with all the requirements of the bid solicitation;
 - b. meet all mandatory technical evaluation criteria; and
 - c. obtain the required minimum of 60 points overall for the technical evaluation criteria which are subject to point rating. The rating is performed on a scale of 80 points.
2. Bids not meeting (a) or (b) or (c) will be declared non-responsive. Neither the responsive bid that receives the highest number of points nor the one that proposed the lowest price will necessarily be accepted. The responsive bid with the lowest evaluated price per point will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. 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

SACC Manual clause A3065T 2018-12-06 Canadian Content Certification

This procurement is conditionally limited to Canadian services.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the service offered is a Canadian service, as defined in clause [A3050T](#), may be considered.

Failure to provide this certification completed with the bid will result in the service offered being treated as a non-Canadian service.

The Bidder certifies that:

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

5.1.2.1.1 SACC Manual clause A3050T 2020-07-01 Canadian Content Definition

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.3 Additional Certifications Precedent to Contract Award

5.2.3.1 Canadian Content Certification

5.2.3.1.1 *SACC Manual* clause [A3050T](#) 2020-07-01 Canadian Content Definition

5.2.3.2 Status and Availability of Resources

5.2.3.2.1 *SACC Manual* clause [A3005T](#) 2010-08-16 **Status and Availability of Resources**

5.2.3.3 Education and Experience

5.2.3.4.1 *SACC Manual* clause [A3010T](#) (2010-08-16) Education and Experience

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Statement of Work

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

6.2 Standard Clauses and Conditions

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

6.2.1 General Conditions

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

6.3 Term of Contract

The period of the Contract is from date of Contract award to December 31, 2021.

6.4 Authorities

6.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Laurie D Brault
Supply Officer

Public Services and Procurement Canada
Services and Technology Acquisition Management Sector
Les Terrasses de la Chaudière
10 Wellington, 4th Floor
Gatineau, Quebec
K1A 0S5

Telephone: 613-406-5384
Email address: laurie.brault@tpgsc-pwgsc.gc.ca

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

6.4.2 Project Authority

The Project Authority for the Contract is:

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.

(Information to be inserted at Contract Award)

6.4.3 Lead Government Department Procurement Authority

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____ - ____ - _____

Facsimile: ____ - ____ - _____

E-mail address: _____

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

(Information to be inserted at Contract Award)

6.4.4 Contractor's Representative

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____ - ____ - _____

Facsimile: ____ - ____ - _____

E-mail address: _____

(Information to be inserted at Contract Award)

6.5 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.

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm prices as specified in the Contract for a total estimated contract price of \$_____. Customs duties are excluded and Applicable Tax is extra, if applicable.

(Information to be inserted at Contract Award)

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.

6.6.2 Method of Payment

6.6.2.1 Milestone Payments

Milestone payment – Not subject to holdback

Canada will make milestone payments in accordance with Annex "B" – Basis of Payment and the payment provisions of the Contract if:

- a. an accurate and complete claim for payment using PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;
- c. all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

6.6.2.2 Electronic Bill Payment – 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)

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

6.7 Invoicing Instructions

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

One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

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

6.8.2 Canadian Content Certification

A3060C (2008-05-12), Canadian Content Certification.

6.9 Applicable Laws

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

6.10 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 general conditions 2040, (2020-05-28), General Conditions – Research & Development;
- (c) Annex A, Statement of Work
- (d) Annex B, Basis of Payment
- (d) the Contractor's proposal dated _____.

6.11 Insurance

SACC Manual clause G1005C (2016-01-28), Insurance

6.12 Dispute Resolution

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

ANNEX "A"

STATEMENT OF WORK

1. TITLE: AIRPORT DRONE MITIGATION, INTEGRATION, AND RESPONSE EXERCISES (ADMIRE)– SITUATION AWARENESS CAPABILITY

2. BACKGROUND

In December 2018, Gatwick Airport was forced to close due to reported sightings of a drone near various runways, which left thousands of passengers stranded. During this event, there was much confusion regarding the actual existence of the drone in question and its location, and the response assumed a high degree of risk to manned aircraft from the drone incursion.

Transport Canada (TC) has engaged with industry partners and other government departments to develop industry guidance on responding to a drone incursion at an airport. In addition, TC led a series of table-top exercises (TTX) with industry and government stakeholders to evaluate incident response and mitigation. These early steps have highlighted the need for further information-sharing, technological development, and operational assessment.

Considering the After Action Results of the TTXs and reviewing the response to the Gatwick drone incursion incident, it is clear that an on-the-ground tactical response needs to be well established, tested, and coordinated. Without a clear understanding of how to respond tactically to the incident/incursion, including the gathering of key information (e.g. locations, type of drone, etc.) it is extremely difficult for those coordinating the response to make decisions. As such, TC has an immediate need to test and evaluate methods and capabilities for responding rapidly.

The Airport Drone Mitigation, Integration, and Response Experiments (ADMIRE) project will validate draft operational procedures for airport drone response, acquire suitable counter-drone and situation awareness capabilities, create realistic experiments with appropriate evaluation metrics, engage relevant operational stakeholders, conduct the experiments at operational airports, and provide a report on the results.

3. OBJECTIVE

To provide temporary provision of key operational capability, a system integrating sensor and location information into a 3D representation of the situation. The 3D Situational Awareness System will be used by operational command, during ADMIRE Exercise 2, to maintain awareness of the status and location of threat and friendly air and land vehicles and personnel, so as to direct the deployment of assets during the exercise.

Data received from a recently completed Tabletop Exercise and functional exercise will provide guidance to refine operational requirements to support the final Exercise 2 at the Ottawa International Airport. It is intended that the 3D SA system be modified based on requirements analysis from Exercise 1 and the two TTXs for full functionality at Exercise 2.

4. ACRONYMS

ADMIRE Airport Drone Mitigation, Integration, and Response Experiments

C2 Command and Control

CSS Centre for Security Science

CSSP Canadian Safety and Security Program

DRDC Defence Research and Development Canada
NCR National Capital Region
MS Microsoft
RCMP Royal Canadian Mounted Police
SA Situation Awareness
SOW Statement of Work
TA Technical Authority
TC Transport Canada
TTX Table-Top Exercises

4. APPLICABLE DOCUMENTS & REFERENCES

DRDC will provide the data background information from the table top exercises and functional exercise 1 to complete the modifications required for exercise 2.

6. TASKS and DELIVERABLES:

The Contractor must provide one electronic copy of all deliverables to the Technical Authority, via email, for review and comment.

All deliverables are subject to review and approval by the Technical Authority.

Milestone	Task and Deliverables	Due Date
1	<p>Task 1: ADMIRE 3D SA Requirements and Detailed Design</p> <p>Task 1 The Contractor must determine the SA and command and control (C2) requirements for the ADMIRE exercise 2.</p> <p>Task 1.1 The Contractor must propose SA system technical and human factors requirements, which must include:</p> <ul style="list-style-type: none"> • Integration of additional sensors or output devices; • Development of additional user interface capabilities; and/or • Simulation of SA capabilities. <p>Task 1.2 The Contractor must write a document in MS Word detailing the ADMIRE SA Requirements and Detailed Design.</p> <p>Deliverables for Task 1</p> <p>Task 1.2 The Contractor must provide a written copy (MS Word) of the ADMIRE situation awareness system requirements and its corresponding detailed design. (to also be incorporated in the Final Report).</p>	8 Weeks (ACA)
2	<p>Task 2: Modify 3D SA System</p> <p>Task 2.1 The Contractor, in consultation with the TA, must determine, from the Task 1.2 list of requirements, which must be implemented.</p> <p>Task 2.2 The Contractor must write a report detailing the revised ADMIRE SA Requirements and Detailed Design.</p>	

Milestone	Task and Deliverables	Due Date
	<p>Task 2.3 The Contractor must modify the technical capabilities and user interface as determined in Task 2.2.</p> <p>Deliverables for Task 2</p> <p>Task 2.2 The Contractor must provide a copy (MS Word) of the written Revised ADMIRE situation awareness system requirements and its corresponding detailed design.</p> <p>Task 2.3 The Contractor must provide a demo on an updated modified SA System either in person or simulated virtually (via O365 Teams).</p>	<p>14 Weeks ACA</p>
<p>3</p>	<p>Task 3 Support Exercise 2 late October 2021 and Final Report</p> <p>Task 3.1 The Contractor must ensure that the installed SA system, modified per Task 2, is correctly adjusted, calibrated, and serviced such that the equipment is ready for operational use in the operations Centre at Ottawa International Airport.</p> <p>Task 3.2 The Contractor must operate the system during several days of exercise.</p> <p>Task 3.3 The Contractor must provide technical support during the exercise.</p> <p>Task 3.4 The Contractor must provide removal service of the SA system at the end of the exercise.</p> <p>Task 3.5 The Contractor must write a Final Report in MS Word, detailing the following:</p> <ul style="list-style-type: none"> • all activities in the project, including development of requirements; • choice of technical and user capabilities; • conduct of the exercise; • recommendations for further use or development of the SA system; • The Requirements and Detailed Design report (Task 1) must be included as an annex. <p>Deliverables for Task 3</p> <p>The Contractor must provide a copy of the written Final Report (MS Word) including Requirements and Detailed Design as an annex.</p>	<p>25 Weeks ACA</p>

9. Language of Work

The work and deliverables must be conducted in and provided in English.

10. Location of Work

The work will be performed at the Contractor's facility and any required experimentation areas within the NCR.

11. Travel

There is no travel associated with this requirement.

12. Meetings

Meetings will be held throughout the project. The time and date(s) of these meetings will be determined on contract award and subsequently, in consultation with the TA. Other meetings may be required during the contract period and will be agreed upon by the TA and Contractor.

13. Special Considerations

All activities are subject to COVID-19 protocols as determined depending on the activity.

14. Government Furnished Equipment (GFE)

The following GFE will be provided: QinetiQ Obsidian Radar, DJI Aeroscope

ANNEX "B"

BASIS OF PAYMENT

1.0 Firm Price

The schedule of milestones for which payments will be made in accordance with the contract, after delivery and acceptance, is as follows:

Milestone No.	Description	Delivery Date	Amount
1	ADMIRE 3D SA Requirements and Detailed Design	8 Weeks After Contract Award (ACA)	
2	Modify 3D SA System	14 Weeks ACA	
3	Support Exercise 2 late October 2021 and Final Report	25 Weeks ACA	

Canada's Total Cost to a Firm Price: \$ _____
(applicable taxes extra)
(Information to be inserted at Contract award)

Attachment 1 to Mandatory Technical Criteria 2 (MT2)

Technical Requirement

Situational Awareness System Temporary Provision

1. The Contractor must provide a 3D situational awareness system with the following specifications:

Specifications	Value
External Source Data Ingestion Capability	System must be capable of ingesting data from wide range of sources, including standards-based data sources including various video codecs, Asterix radar data formats, UAS ground control data feeds, etc.
Data Manipulation Capability	System must be capable of displaying information in a range of pre-defined configurations, as well as be user-configurable using intuitive, straightforward controls. Controls must be either touch-screen based or mouse-and-cursor control, in combination with a data entry option such as keyboard (on-screen or physical)
Data Display	System must be capable of selectively displaying a broad base of data, including geomatics data (maps), video feeds, UAS ground control data (flight telemetry from UAV), radar data information, weather information, flight tracking information, dynamic warnings based on user input (e.g. warning users when an aircraft enters a pre-defined zone)
Portable	The overall system must be transportable and capable of being set up by 1 person, and must fit into a standard-sized SUV, van, or pick-up type truck (overall dimensions to not exceed 48" x 60" x 84").
Power Requirements	Equipment must be powered from a standard 110V wall outlet (15A maximum, includes being powered by a small generator), or also run through a 12V DC automotive-type power source
Remote Viewing Capability	System must use on-board networking capabilities to allow external displays to be used to interface the main system wirelessly (e.g. sharing screen views with nearby personnel)
Data Input Capability	Where externally-interfaced equipment permits (e.g. radar system, remote camera control, etc.), system must be capable of relaying user commands / controls to 3 rd party equipment using the main situational awareness system.

2. Accessories (Temporary Provision)

The Contractor may be required to provide the following accessories for requirement 1:

Description	Required quantity
Primary touchscreen interface, large form factor (minimum size of 42" diagonal screen size), to enable demonstrations and visualization of all data processed by situational awareness system	1
Tablet computers to display and manipulate information from the situational awareness system	3
General-purpose tablets which can display, but not allow manipulation of pre-configured information from situational awareness system	3

ANNEX "C"

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)