

**Government Services** 

Travaux publics et Services gouvernementaux Canada

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

**Public Works and Government Services Canada ATB Place North Tower** 10025 Jasper Ave./10025 ave. Jaspe 5th floor/5e étage **Edmonton** Alberta T5J 1S6

Bid Fax: (780) 497-3510

# 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** 

**Vendor/Firm Name and Address** Raison sociale et adresse du fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Public Works and Government Services Canada ATB Place North Tower 10025 Jasper Ave./10025 ave Jasper 5th floor/5e étage Edmonton Alberta T5J 1S6

Title - Sujet				
3D Radar System				
Solicitation No N° de l'invitation				
W7702-196175/A		2018-1	12	-04
Client Reference No N° de ré W7702-196175	éférence du client			
GETS Reference No N° de ré PW-\$EDM-024-11503	éférence de SEAG			
File No N° de dossier	CCC No./N° CCC - FMS	No./N°	٧	ME
EDM-8-41207 (024)				
Solicitation Closes -	L'invitation pre	nd fi	n	Time Zone Fuseau horaire
at - à 02:00 PM on - le 2019-01-14				Mountain Standard Time MST
F.O.B F.A.B. Specified H	Herein - Précisé dans les p	présente	s	
Plant-Usine: Destination	: Other-Autre:			
Address Enquiries to: - Adress Tiet, Anthony	ser toutes questions à:			iyer ld - ld de l'acheteur
Telephone No N° de télépho	ne			- N° de FAX
(587) 926-1376 ( )		(780) 497-3510		
Destination - of Goods, Service Destination - des biens, service DEPARTMENT OF NATIONA PO BOX 4000, STN MAIN MEDICINE HAT Alberta T1A8K6 Canada	es et construction:			

Instructions: See Herein

Instructions: Voir aux présentes

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



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## **PART 1 - GENERAL INFORMATION**

# 1.1 Requirement

The requirement is detailed under Article 6.2 of the resulting contract clauses.

# 1.2 Debriefings

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

# 1.3 Trade Agreements

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Canadian Free Trade Agreement (CFTA).

# 1.4 epost Connect service

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.

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#### **PART 2 - BIDDER INSTRUCTIONS**

#### 2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (https://buyandsell.gc.ca/policy-andguidelines/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 (2018-05-22), Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### 2.2 **Submission of Bids**

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

BRU: Western Region Bid Receiving Unit (Edmonton) Address: 5th Floor, ATB Place Tower, 10025 Jasper Avenue

Edmonton, AB T5J 1S6

E-post Connect: ROReceptionSoumissions.WRBidReceiving@tpsgc-pwgsc.gc.ca

> Bids/Offers will be not be accepted if emailed directly to this email address. This email is to initiate an ePost Connect conversation, as detailed in the Standard

Instructions.

Bid Fax: 780-497-3510

#### 2.3 **Enquiries - Bid Solicitation**

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

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

#### 2.4 **Applicable Laws**

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

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.

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#### **PART 3 - BID PREPARATION INSTRUCTIONS**

#### 3.1 Bid Preparation Instructions

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. Bidders must provide their bid in a
single transmission. The epost Connect service has the capacity to receive multiple documents, up to
1GB per individual attachment.

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

Section I: Technical Bid Section II: Financial Bid Section III: Certifications

• 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 (1 hard copy) Section II: Financial Bid (1 hard copy) Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

• 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.

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 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.

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 <a href="Policy on Green">Policy on Green</a>
<a href="Procurement">Procurement</a> (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.

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## 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.

#### 3.1.1 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.

## 3.1.2 Exchange Rate Fluctuation

SACC Manual Clauses C3011T (2013-11-06), Exchange Rate Fluctuation

#### Section III: Certifications

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

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## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

#### 4.1 Evaluation Procedures

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

#### 4.1.1 Technical Evaluation

The bidder should provide a resume or a written understanding to demonstrate adherence to the following mandatory requirements at solicitation closing.

## 4.1.1.1 Mandatory Technical Criteria

Failure to meet any of the following mandatory criteria at solicitation closing will render your submission non-compliant and given no further consideration:

- 1. Compliance with the terms and conditions contained in this document.
- 2. Ability to perform the full scope of the work, as described in Annex "A".

#### 4.1.1.2 Point Rated Technical Criteria

Each Technical Bid which meets all the Mandatory Requirements specified above, will be evaluated and scored in accordance with the following evaluation criteria:

Rating						
A. UNDERSTANDING	WEIGHT	RATING	SCORE			
<ol> <li>Detailed description of system components, capabilities relative to mandatory requirements and overall quality of proposal.         <ul> <li>O point – insufficient or weak understanding of the requirement</li> <li>1 point – provides sufficient understanding of the requirement</li> <li>2 points – provides sufficient understanding of the requirement and provides the evaluator with a good understanding of the proposed system and its capabilities.</li> <li>3 points – provides sufficient understanding of the requirement and provides the evaluator with a comprehensive understanding of the proposed system and its capabilities.</li> </ul> </li> </ol>						
Maximum points available		•	6			
Minimum points acceptable						
Points Awarded						

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Points						
B. EXPERIENCE 1 WEIGHT POINTS						
The Contractor must have experience in producing						
commercial radar systems and their affiliated software and						
components.						
<ul> <li>Under 5 years – 0 point</li> </ul>	1					
<ul> <li>5 - 6 years – 1 point</li> </ul>						
<ul> <li>7 - 8 years – 2 points</li> </ul>						
<ul> <li>9 - 10 years – 3 points</li> </ul>						
<ul> <li>11+ years – 4 points</li> </ul>						
Maximum points available			1			
Minimum points acceptable						
Points Awarded						
B. EXPERIENCE 2 WEIGHT POINTS						
1. The Contractor must have previously completed one or						
more radar contracts with a North Atlantic Treaty						
Organization (NATO) member.						
Have not completed any radar contracts with a	1					
NATO member – 0 points						
• 1 NATO member – 1 point						
<ul><li>2 - 3 NATO member – 2 points</li></ul>						
• 4+ NATO members – 3 points						
Maximum points available			3			
Minimum points acceptable			1			
Points Awarded						
MANUMUM TOTAL POINTO AVAILABLE			13			
MAXIMUM TOTAL POINTS AVAILABLE						
MINIMUM TOTAL POINTS ACCEPTABLE			4			
TOTAL POINTS AWARDED						

Each evaluation criterion has a number allotment ("weight") that reflects its importance in proposal submissions.

- In Part A, Understanding, the degree to that the proposal satisfies the requirement of each criterion will be assessed and a "rating" will be assigned ranging from 0 to 3, with 0 meaning the proposal completely fails to satisfy the requirement, and the total allotment meaning the proposal fully meets the outlined criterion.
- In Part B, Experience, the degree to that the proposal satisfies the requirement of each criterion will be assessed and "points" will be assigned based on the experience.

Each part will have the maximum points available, minimum points acceptable and the pointed awarded. A score will be assessed by multiplying the weight by the rating or points. The total points awarded will be obtained by adding all the scores together.

#### 4.1.2 **Financial Evaluation**

SACC Manual Clause A0222T (2014-06-26), Evaluation of Price

The maximum funding available for the Contract resulting from the bid solicitation is \$200,000.00 (Applicable Taxes extra). Bids valued in excess of this amount will be considered non-responsive. This disclosure does not commit Canada to pay the maximum funding available.

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## 4.2 Basis of Selection

- 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 points for each of the technical evaluation criteria which are subject to point rating:
    - i. Part A, Understanding: 2/6
    - ii. Part B, Experience 1: 1/4
    - iii. Part B, Experience 2: 1/3
- 2. Bids not meeting (a) or (b) or (c) will be declared non responsive. The responsive bid with the highest number of points will be recommended for award of a contract, provided that the total evaluated price does not exceed the budget available for this requirement.

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#### PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

#### 5.1 Certifications Required with the Bid

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

#### 5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

#### 5.2 Certifications Precedent to Contract Award and Additional Information

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

# 5.2.1 Integrity Provisions – Required Documentation

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the <u>Ineligibility and Suspension Policy</u> (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 <a href="Employment and Social">Employment and Social</a> <a href="Development Canada (ESDC)">Development Canada (ESDC)</a> - <a href="Labour's">Labour's</a> 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.

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## **PART 6 - RESULTING CONTRACT CLAUSES**

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

#### 6.1 Security Requirements

**6.1.1** There is no security requirement applicable to the Contract.

#### 6.2 Requirement

The Contractor must provide the items detailed under the "Requirement" at Annex "A".

## 6.3 Standard Clauses and Conditions

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

#### 6.3.1 General Conditions

2010A (2018-06-21), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### 6.4 Term of Contract

## 6.4.1 Delivery Date

All the deliverables must be received on or before \_\_\_\_\_ (insert the date).

#### 6.4.2 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

#### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Anthony Tiet Title: Procurement Officer

Public Works and Government Services Canada

Acquisitions Branch

Directorate: Western Region

Address: 5th Floor, ATB Place Tower, 10025 Jasper Avenue, Edmonton, AB T5J 1S6

Telephone: 587-926-1376 Facsimile: 780-497-3510

E-mail address: anthony.tiet@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

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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.

# 6.5.2 Project Authority

oject Authority for the Contract is: (will be inserted at contract award)
zation:
s:
one:
ile:
address:
oject Authority is the representative of the department or agency for whom the Work is being out under the Contract and is responsible for all matters concerning the technical content of the inder the Contract. Technical matters may be discussed with the Project Authority, however the Authority has no authority to authorize changes to the scope of the Work. Changes to the scope Work can only be made through a contract amendment issued by the Contracting Authority.
Contractor's Representative (to be filled out by bidder)
sation : e :
one : pieur : el :
Payment
Basis of Payment
Manual Clause <u>H1000C</u> (2008-05-12), Single Payment
Electronic Payment of Invoices – Contract
ontractor 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)

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## 6.7 Invoicing Instructions

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.

Invoices must be distributed as follows:

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

#### 6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_ (insert the name of the province or territory as specified by the Bidder in its bid, if applicable).

## 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 2010A (2016-04-04), General Conditions Goods (Medium Complexity);
- (c) Annex "A", Requirement;
- (d) Annex "B", Compliance Matrix Minimum Mandatory Performance Specifications;
- (e) Annex "C", Basis of Payment;
- the Contractor's bid dated \_\_\_\_\_ (insert date of bid) (If the bid was clarified or amended, insert at the time of contract award: ", as clarified on \_\_\_\_\_ " or ", as amended on \_\_\_\_\_ " and insert date(s) of clarification(s) or amendment(s)).

#### 6.11 SACC Manual Clauses

A9068C (2010-01-11), Government Site Regulations

B7500C (2006-06-16), Excess Goods

G1005C (2016-01-28), Insurance - No Specific Requirement

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#### ANNEX "A"

#### REQUIREMENT

#### 1. Background

The department of Defence Research and Development Canada, Suffield Research Centre (DRDC-SRC) has a requirement to conduct a series of trials to examine the efficacy of several Counter Unmanned Aerial Systems (C-UASs). To establish a ground truth independent of any examined C-UAS, a manportable directional radar system is required to be able to identify Unmanned Aerial Systems (UAS) flying as a red team against the given CUAS. Further, this radar system should be able to locate the UAS on a map, specify its velocity/altitude/heading, and allow its raw data for export.

#### 2. Requirement

The Contractor must provide a software-defined, three-dimensional radar system with all accessories. This radar is to be of the tactical, man-portable variety and capable of detecting aerial objects in its zone of detection and must meet the mandatory specifications outlined in Annex "B".

#### 2.1 Deliverables

The Contractor must deliver the unit as per Annex "B" with the following accessories:

- 1. 1 x Ruggedized carrying case for radar system with applicable accessories;
- 2. 1 x Tripod with applicable accessories;
- 3. 2 x Mounting hardware with applicable accessories;
- 4. 2 x All required wiring, power adaptors (for North American 120 VAC power and NEMA 1-15 or 5-15 plug/receptacle standard), data cables, and harnesses;
- 5. 1 x Laptop or portable computer with the control software;
- 1 x Software on external media for installation on up to three (3) other Windows OS computers; and
- 7. 1 x Product manual(s), both digital and print (as applicable).

#### 2.1.1 Delivery Date

All deliverables identified should be delivered on or before 2019-03-31. If you cannot meet this, the best delivery that could be offered is \_\_\_\_\_\_\_. (please insert if applicable)

#### 2.1.2 Delivery Location

The Contractor must deliver the requirement to:

Defence Research and Development Canada – Suffield Research Centre, Bldg 560 Receiving Ralston, Alberta
T0J 2N0
Canada

#### 3. Acronyms

UAS	Unmanned Aerial System
C-UAS	Counter Unmanned Aerial System
COTS	Commercial-Off-The-Shelf
RCS	Radar Cross Section
RF	Radio Frequency
GUI	Graphical User Interface

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# ANNEX "B"

#### COMPLIANCE MATRIX - MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

A complete list of the minimum mandatory performance specifications are detailed below in the "Compliance Matrix". Bidders are to clearly demonstrate compliance with each mandatory specification.

- 1. Bidders **must** show compliance by addressing each performance specification in the Compliance Matrix, whether the product offered "meets" or "doesn't meet".
- 2. It is requested that supporting technical documentation, including but not limited to, specification sheets, technical brochures, photographs or illustrations be provided with the bid at solicitation close and be cross-referenced on the Compliance Matrix for each performance specification to outline where in the supporting technical documentation it demonstrates compliance. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to prove that the proposed product(s) meet the requirements of the Performance Specification. If published supporting technical document is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance.
- 3. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.
- 4. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.
- 5. Failure to meet each performance specification will result in the bid being deemed non-responsive, and be given no further consideration.

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# **COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS:**

Requirement	Manufacturer(s) Offered:	Model Number(s) Offered:
Software-defined, three- dimensional radar system		

Item #	Performance Specification	Status (M) Mandatory (D) Desirable*	Performance Specification Met? Indicate either Yes/No	Performance Specification Offered: Bidder should indicate how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders should cross-reference where this performance specification is indicated in their supporting documents.
A.	Radar System				T
1	Radar Technology: System must be a software-defined radar, allowing different operational profiles for upload to hardware.	М			
2	Radar Technology: Radar must be a three- dimensional one, meaning it can locate objects relative to it in all three dimensions of space.	М			
3	RF Coverage: Radar generates RF coverage of no less than 90 degrees of arc in both azimuth and elevation.	М			
4	Minimum Detectable Object Size: Radar must be able to detect an object with a RCS of 0.1 m <sup>2</sup> at a distance of 1km. Radar must be able to detect NATO Class I Mini UASs.	М			
5	Minimum, Maximum Target Velocities: Radar must be able to detect objects above the minimum detectable object size (requirement A.4) travelling between 10 and 500 km/hr.	М			

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			,	1	
	Scan Frequency/	ı		l i	l
	Update Rate: Radar	ı		l i	l
	must scan its area and	ı		l i	l
6	update objects and their	М		Į i	Ţ
"		IVI		ļ i	l .
1	speeds, headings, and	,	i	ļ i	
	locations at least once	,		ļ i	l .
	every second (1 Hz).		<u></u>		<u> </u>
-	Minimum Detection	. — <u>—</u>		i	
	Range: Radar must be	,		ļ i	l .
7	able to detect aerial	M	i	Į i	
'	objects from a minimum	, <del></del>	i	Į i	
1	distance of 200 m.	,		ļ i	l .
			†	<del> </del>	<del> </del>
1	Accuracy: The radar			ļ	l
1	must have a single-scan	1		ļ	l
1	probability of detection	1		ļ	l
8	of 90% and a false-	М		ļ	l
0	alarm rate of no more	IVI		Į i	l
1	than 5% for an object			ļ	l
1	with an RCS of 0.1m <sup>2</sup> at	1		ļ	l
1	a distance of 1km.	1		ļ	l
<del>                                     </del>			†	+	<del> </del>
į i	Two-targets: Radar	1		ļ	l
1	must be capable of			ļ	l
_ i	resolving two targets	· • •		ļ	l
9	separated by 10m in	М		ļ	l
1	range when both targets			ļ	l
1	are in the same azimuth	1		ļ	l
1	/ elevation beamwidth.			ļ	l
	Two-targets: The C-		†	1	†
1	UAS Radar System must	1		ļ	<b>[</b>
1		1		ļ	<b>[</b>
1	be capable of resolving	1		ļ	<b>[</b>
1 40	two targets separated by	•		ļ	<b>!</b>
10	5 degrees in azimuth	M		Į i	<b>[</b>
1	when both targets are at	1		ļ	<b>[</b>
1	the same range and in			ļ	<b>!</b>
1	the same elevation	i		Į i	ļ <sub>l</sub>
1	beamwidth.	,		ļ i	ļ i
	Two-targets: The C-		1	i i	
1	UAS Radar System must	,		ļ i	ļ i
1		,		ļ i	Į į
1	be capable of resolving	i		Į i	ļ <sub>l</sub>
,,	two targets separated by	N.A		ļ i	ļ
11	5 degrees in elevation	M	i	ļ i	ļ
1	when both targets are at	i		Į i	ļ <sub>l</sub>
1	the same range and in	,		ļ i	ļ
1	the same azimuth	,	i	ļ i	ļ į
1	beamwidth.	,		ļ i	ļ i
	Mass: The radar		i	ı	
1	system, not including	,	i	ļ i	
1	accessories, case, or	,		ļ i	l i
12		M		ļ i	l i
1	controlling computer,	i		Į i	ļ i
1	must have a mass of	1		ļ	ļ
<b></b>	less than 30kg.		<u></u>		
13	Calibration: The radar	М	<u> </u>	i	<u> </u>
_ '3	must be self-calibrating.		i	<u> </u>	l <u> </u>
				<del></del>	

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14	Ranging and Detection: The radar must be able to detect, locate, and range objects automatically via its affiliated software.	М		
15	External Temperature Operational Range: The radar must be rated to operate within the band from -40C to 50C inclusively.	М		
16	Interface: The radar must be able to communicate via Ethernet, RS-422, and/or RS-232 protocols.	М		
17	cots Status: The proposed radar system must be a commercial off-the-shelf product that is mass produced, not a custom design or one-off.	М		
B.	Radar Data and GUI Req	uirements		
1	Mapping Data: Map data must be included or software must allow use of user-chosen map data.	М		
2	Raw Radar Data: Radar must provide access to raw data, including all detected objects with their locations relative to the radar, headings, and velocities, for DRDC use and manipulation.	М		
3	Micro-Doppler Data: Radar must provide access to raw micro- Doppler data (if applicable for a given detected object) for DRDC use and manipulation.	М		
4	data presented in real- time to a software map presented on a provided accessory screen (portable computer or laptop).	М		

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ANNEX "C"

## **BASIS OF PAYMENT**

- Firm Unit pricing must be in Canadian Dollars.
   Delivery: Delivery Duty Paid (DDP), Defence Research and Development Canada Suffield Research Centre, Bldg 560 Receiving, Ralston, Alberta, T0J 2N0, Canada, Incoterms 2010.
- Prices are required for each line item and as per format shown below.
- Firm Unit Prices do not include GST/HST. GST/HST will be added as a separate line item to any invoice issued as a result of a Contract (if applicable).

Item	Description	Unit (a)	Firm Price (b)	Extended Price (a x b)
1	Software-defined, three-dimensional radar system with accessories and attributes as per Annex "A" and Annex "B".	1 lot	\$/ lot	\$
			TOTAL (CAD):	\$

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# ANNEX "D"

## **ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts 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)