



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

Halifax

Nova Scotia

B3J 1T3

Bid Fax: (902) 496-5016

## 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

Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

Halifax

Nova Scot

B3J 1T3

<b>Title - Sujet</b> Infrasound Sensors	
<b>Solicitation No. - N° de l'invitation</b> W7707-216832/A	<b>Date</b> 2020-07-29
<b>Client Reference No. - N° de référence du client</b> W7707-21-6832	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-406-11032	
<b>File No. - N° de dossier</b> HAL-0-85042 (406)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2020-08-20</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Matheson, Valerie	<b>Buyer Id - Id de l'acheteur</b> hal406
<b>Telephone No. - N° de téléphone</b> (902) 403-6236 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF NATIONAL DEFENCE 9 GROVE STREET DARTMOUTH NOVA SCOTIA B3A 3C5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

## INFRASOUND SENSORS

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Statement of Requirement**

Public Service and Procurement Canada (PSPC) on behalf of Defence Research and Development Canada has a requirement for the supply and delivery of ten (10) Infrasound Sensors and supporting accessories.

Infrasound is very low frequency (inaudible to humans) sound, which is used for detection and localization of air targets of interest in the atmosphere. Infrasound can propagate over very long distances, which makes this passive sensing technology a very valuable tool for defence related purposes.

The Infrasound Array (IA) system being developed will consist of 2 individual portable ground arrays that would be deployable and operational in any environment and under any conditions.

The requirement is detailed in Annex A, Statement of Requirement.

### **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 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.

## 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: 90 days

### 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:

Bid Receiving  
Public Works and Government Services Canada-  
Réception des soumissions Travaux publics et Services gouvernementaux Canada  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.) B3J 1T3

Bid Fax: (902) 496-5016

E-mail address for ePost Connect Service:

[TPSGC.RARceptionSoumissionsNE-ARBidReceivingNS.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.RARceptionSoumissionsNE-ARBidReceivingNS.PWGSC@tpsgc-pwgsc.gc.ca)

#### NOTE:

**Bids/Offeres 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.**

### 2.3 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 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 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.

### 2.5 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

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

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

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

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

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

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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 “C” 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.

**3.1.2 Exchange Rate Fluctuation**

C3011T (2013-11-06), Exchange Rate Fluctuation

**3.1.3 SACC Manual Clauses****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 and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### 4.1.1 Technical Evaluation

##### 4.1.1.1 Mandatory Technical Criteria

To be considered responsive, an offer must meet all of the following mandatory evaluation criteria. Offers not meeting all of the mandatory requirements will be given no further consideration.

**MANDATORY requirement at Solicitation closing date:**

- 1. Bidder must complete Annex E, Mandatory Technical Requirements–Cross Reference.
- 2. Bidder must complete the Table 1-Mandatories.

TABLE 1-Mandatories	
1	<p>Bidder must demonstrate that their proposed infrasound sensor has a history of being used, within the last 60 months, in applications for infrasound/seismic data recording for specialized purposes (e.g., infrasound and/or seismic monitoring).</p> <p>This must be evidenced through at least one previous contract.</p>
<p>Name of Contract Date of Contract Client Phone # for Client Email for Client</p>	
<p><b>Contract Description</b></p>	

<b>2</b>	<p>The Bidder must demonstrate that their proposed infrasound sensor has a history of being used, within the last 60 months, in infrasound monitoring by the International Monitoring System (Comprehensive Test-Ban Treaty Organization (CTBTO)), and/or governmental organizations such as the Natural Resources Canada, and/or the United States Geological Survey.</p> <p>This must be evidenced through at least one previous contract.</p>
<p>Name of Contract Date of Contract Client Phone # for Client Email for Client</p>	
<b>Contract Description</b>	
<b>3</b>	<p>The Bidder must demonstrate that their proposed infrasound sensor has been previously evaluated and bench-tested, within the last 60 months, at Sandia National Laboratories Facility for Acceptance, Calibration and Testing (FACT) Site in Albuquerque, New Mexico.</p> <p>This must be evidenced through at least one technical report that has been published by Sandia National Laboratories.</p>
<p><b>Technical Report published by Sandia National Laboratories</b></p> <p>Report Title: _____</p> <p>Author of Report: _____</p> <p>Number and Publishing Year of Report: _____</p> <p>Link of Report (<i>if available</i>): _____</p>	

#### 4.1.2 Financial Evaluation

SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price-Bid.

#### 4.2 Basis of Selection – Mandatory Technical Criteria

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

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## PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

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

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

### 5.1 Certifications Required with the Bid

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

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

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the 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.

### 5.2 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 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.

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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 Statement of 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 [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.

#### 6.3.1 General Conditions

[2010A](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 6.4 Term of Contract

#### 6.4.1 Period of the Contract

#### 6.4.2 Delivery Date

All the deliverables must be received on or before **October 30, 2020**.

#### 6.4.5 Delivery Points

Delivery of the requirement will be made to –

Defence Research and Development Canada – Atlantic Research Centre  
90 Grove St.  
Dartmouth, Nova Scotia  
B2Y 3C5  
Canada

## 6.5 Authorities

### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Valerie Matheson, Supply Officer  
Nova Scotia Acquisitions Directorate  
Public Services and Procurement Canada  
1713 Bedford Row  
Halifax, Nova Scotia B3J 1T3

Telephone: 902-403-6236  
Facsimile: 902-496-5016  
E-mail address: [Valerie.Matheson@pwgsc-tpsgc.gc.ca](mailto:Valerie.Matheson@pwgsc-tpsgc.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.

### 6.5.2 Project Authority

The Project Authority for the Contract is: **(COMPLETED 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.

### 6.5.3 Contractor's Representative **(TO BE COMPLETED BY BIDDER)**

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_  
Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

## **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 a firm unit price(s) as specified in Annex B for a cost of \$ \_\_\_\_\_ (*insert the amount at contract award*). Customs duties are included, and Applicable Taxes are extra.

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

### **6.6.2 Limitation of Price**

SACC *Manual* clause C6000C 2017-08-17 Limitation of Price

### **6.6.3 Single Payment**

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

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

### **6.6.4 Electronic Payment of Invoices – Contract**

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);

## **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:
  - a. The original and one (1) copy must be forwarded to the following address for certification and payment.

Department of National Defence DREA  
PO Box 1012  
Dartmouth, NS B2Y 3Z7

## **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 **Nova Scotia**.

### **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.

1. the Articles of Agreement;
2. the general conditions 2010A (2020-05-28), General Conditions - Goods (Medium Complexity),
3. Annex A, Statement of Requirement;
4. Annex B, Basis of Payment;
5. Annex C, Electronic Payment;
6. Annex D, Integrity Provisions – Board of Directors;
7. Annex E, Mandatory Technical Criteria;
8. the Offeror's offer dated \_\_\_\_\_ .

### **6.11 SACC Manual Clauses**

SACC Manual Clause G1005C (2016-01-28) Insurance – No Specific Requirement  
SACC Manual Clause B7500C (2006-06-16) Excess Goods  
SACC Manual Clause B1501C (2018-06-21) Electrical equipment

### **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".

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HAL-0-85042

Buyer ID - Id de l'acheteur  
HAL406  
CCC No./N° CCC - FMS No./N° VME

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### **6.13 Inspection and Acceptance**

The Project Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

## **ANNEX "A"**

### **STATEMENT OF REQUIREMENT**

#### **1. TITLE**

Infrasound Sensors

#### **2. BACKGROUND**

Infrasound is very low frequency (inaudible to humans) sound, which is used for detection and localization of air targets of interest in the atmosphere. Infrasound can propagate over very long distances, which makes this passive sensing technology a very valuable tool for defence related purposes.

*The Infrasound Array (IA) system being developed will consist of 2 individual portable ground arrays that would be deployable and operational in any environment and under any conditions.*

#### **3. ACRONYMS**

DRDC	Defence Research and Development Canada
IA	Infrasound Array

#### **4. APPLICABLE DOCUMENTS & REFERENCES**

None

#### **5. REQUIREMENTS**

##### **5.1 Infrasound Sensors**

**Required quantity:** 10

The Contractor must provide the requirement with the following specifications:

Specifications	Value
Frequency response	Flat to within $\pm 3$ Decibels from 0.03 Hertz to 245 Hertz
Operating environment	Must be designed and optimized for unsupervised operation in extremely harsh environments (desert to the Arctic) and under extreme environmental conditions
Operating temperature	-35 degrees Celsius to +65 degrees Celsius
Humidity	95% (non-condensing)
DC source	Between 10 Volts and 20 Volts
Short circuit protection	<ul style="list-style-type: none"> <li>- Overcurrent and surge protection</li> <li>- Protected against sudden shorts from signal+ to signal- and signal to ground</li> </ul>
Output type	Differential
Dynamic range	Minimum 115 Decibels
Optimization	<ul style="list-style-type: none"> <li>- Optimized for very low signal-to-noise ratio, distant sources (lightning, noise)</li> <li>- Must be fully functional and with optimum performance when exposed to near field sources (loud explosions)</li> </ul>

## 5.2 Accessories

The Contractor must provide the following accessories for requirement 5.1:

Description	Required Quantity
Foldable wind shelter for infrasound sensors	8
Deployment boxes (water proof, insulated, harsh environment ready)	8
Teflon insulated heavy duty sensor-data cable, 150 meters to sensor	4
Teflon insulated heavy duty sensor-data cable, 100 meters to sensor	4
4 to 1 breakout cable to digitizer (heavy duty, insulated, harsh-environment ready)	2

### 5.3 Hardware Warranty

The Contractor must provide at least 1 year hardware warranty for the hardware listed in requirement 5.1.

### 5.4 Hardware Installation Support

The Contractor must provide a detailed technical manual in English for the installation and operation of the hardware for requirement 5.1.

The Contractor must also provide hardware installation support, via telephone or e-mail, for a period of three (3) months after completing Requirements 5.1 to 5.3 in their entirety. During this time, the Contractor must respond to DRDC within 72 hours of receiving an inquiry, to verify that the installed items are correctly adjusted, calibrated, and serviced such that the equipment is ready for operational use.

## 6. Deliverables

Number	Requirement Reference	Description of the Deliverables	Quantity
6.1	5.1	Infrasound Sensors	10
6.2	5.2	Wind Shelter	8
6.3	5.2	Deployment Box	8
6.4	5.2	Sensor-data Cable (150 meters)	4
6.5	5.2	Sensory-data Cable (100 meters)	4
6.6	5.2	4 to 1 Breakout Cable	2
6.7	5.3	Hardware Warranty	N/A
6.8	5.4	Installation, Operation and Technical Manual	N/A

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**7. DATE OF DELIVERY**

Deliverable	Delivery Date
6.1 – 6.8	Requested by 30 October 2020

**8. Language of Work**

English.

**9. DELIVERY LOCATION**

Defence Research and Development Canada – Atlantic Research Centre  
90 Grove St.  
Dartmouth, Nova Scotia  
B2Y 3C5  
Canada

**10. Travel**

The Contractor is not required to travel.

**11. MEETINGS**

Not required.

**12. GOVERNMENT SUPPLIED MATERIAL (GSM)**

None.

**13. GOVERNMENT FURNISHED EQUIPMENT (GFE)**

None.

**14. SPECIAL CONSIDERATIONS**

None.

## ANNEX "B"

### BASIS OF PAYMENT

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

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

The price per unit cost must include all costs associated with the supply and delivery of Infrasound Sensors and accessories in accordance with Annex A, Statement of Requirement.

Delivery to:

**Defence Research and Development Canada – Atlantic Research Centre**  
**90 Grove St., Dartmouth, Nova Scotia**  
**B2Y 3C5 Canada**

Item	Description	Unit of Issue	Quantity (A)	Unit Price (B)	Extended Total C=(A*B)
1	Infrasound Sensors	Each	10	\$	\$
2	Wind Shelter	Each	8	\$	\$
3	Deployment Box	Each	8	\$	\$
4	Sensor-data Cable (150 meters)	Each	4	\$	\$
5	Sensory-data Cable (100 Meters)	Each	4	\$	\$
6	4 to 1 Breakout Cable	Each	2	\$	\$
7	Hardware Installation Support	Lot	1	\$	\$
<b>TOTAL EVALUATED PRICE (applicable taxes extra)</b>					\$

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Amd. No. - N° de la modif.  
File No. - N° du dossier  
HAL-0-85042

Buyer ID - Id de l'acheteur  
HAL406  
CCC No./N° CCC - FMS No./N° VME

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## **ANNEX “C” to PART 3 OF THE BID SOLICITATION**

### **ELECTRONIC PAYMENT INSTRUMENTS**

*As indicated in Part 3, clause 3.1.2, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.*

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);

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W7707-216832/A  
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W7707-21-6832

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HAL-0-85042

Buyer ID - Id de l'acheteur  
HAL406  
CCC No./N° CCC - FMS No./N° VME

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**ANNEX “D”**

**INTEGRITY PROVISIONS – REQUIRED DOCUMENTATION**

Complete Legal Name of Supplier: \_\_\_\_\_

Supplier Address: \_\_\_\_\_

Supplier PBN: \_\_\_\_\_

**Solicitation Number: W7707-216832/A**

Please provide list of names of the following entities, according to the ownership nature of the company

1. For a Corporation - each current member of the Bidder's Board of Directors;

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. For a Partnership, General Partnership or Limited Partnership - the names of all current partners;

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. For a Sole Proprietorship or an individual doing business under a firm name - the name of the sole proprietor or individual;

\_\_\_\_\_

4. In the case of a joint venture - For a Joint Venture - the names of all current members of the Joint venture;

\_\_\_\_\_  
\_\_\_\_\_

5. For an individual - the full name of the person

\_\_\_\_\_

## ANNEX "E"

### MANDATORY TECHNICAL REQUIREMENTS – CROSS REFERENCE

**THIS FORM MUST BE COMPLETED AND SUBMITTED WITH YOUR BID.**

### Instructions:

It is mandatory for each bidder to provide technical / descriptive documentation of the product they are offering (e.g. drawing, brochure, data sheet, etc.).

Bidders **MUST** comment and reference the page number in the supporting technical data sheet(s) or brochure to demonstrate and support compliance for each of the Mandatory Technical Criteria stated below.

It will be advantageous to furnish as much detail as possible to support your claims of compliance for each of the Mandatory Criteria listed below.

**NOTE:** The Crown is under NO obligation to seek clarification of the bid(s) or the supporting technical documentation provided.

Failure to meet any of the following Mandatory Technical Criteria listed below will render your proposal non-compliant and will be given no further consideration.

MANDATORY TECHNICAL SPECIFICATIONS INFRA SOUND SENSORS AND ACCESSORIES		Please indicate page and comment where in your descriptive documents or technical literature the mandatory technical specifications can be found
1	<b><u>Frequency Response</u></b>  Flat to within $\pm 3$ Decibels from 0.03 Hertz to 245 Hertz	Page ____/Comment:
2	<b><u>Operating Environment</u></b>  Must be designed and optimized for unsupervised operation in extremely harsh environments (desert to the Arctic) and under extreme environmental conditions	Page ____/Comment:
3	<b><u>Operating Temperature</u></b>  -35 degrees Celsius to +65 degrees Celsius	Page ____/Comment:
4	<b><u>Humidity</u></b>  95% (non-condensing)	Page ____/Comment:

5	<b><u>DC Source</u></b> Between 10 Volts and 20 Volts	Page _____/Comment:
6	<b><u>Short Circuit Protection</u></b> - Overcurrent and surge protection - Protected against sudden shorts from signal+ to signal- and signal to ground	Page _____/Comment:
7	<b><u>Output Type</u></b> Differential	Page _____/Comment:
8	<b><u>Dynamic Range</u></b> Minimum 115 decibels	Page _____/Comment:
9	<b><u>Optimization</u></b> Must be optimized for very low signal-to-noise ratio, distant sources (lightning, noise)  Must be fully functional and with optimum performance when exposed to near field sources (loud explosions)	Page _____/Comment:
<b>ACCESSORIES</b>		
10	Foldable wind shelter for infrasound sensors	Page _____/Comment:
11	Deployment boxes (water proof, insulated, harsh environment ready)	Page _____/Comment:
12	Teflon insulated heavy duty sensor-data cable, 150 meters to sensor	Page _____/Comment:
13	Teflon insulated heavy duty sensor-data cable, 100 meters to sensor	Page _____/Comment:
14	4 to 1 breakout cable to digitizer (heavy duty, insulated, harsh-environment ready)	Page _____/Comment: