



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

**Bid Receiving - PWGSC / Réception des
soumissions → TPSGC**
10th Floor, 4900 Yonge Street /
10e étage, 4900 rue Yonge
Toronto
Ontario
M2N 6A6

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Eddy Current Array System	
Solicitation No. - N° de l'invitation W3474-203011/A	Date 2019-12-20
Client Reference No. - N° de référence du client W3474-203011	
GETS Reference No. - N° de référence de SEAG PW-\$TOR-006-7870	
File No. - N° de dossier TOR-9-42091 (006)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2020-02-03	Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Liao, Guo	Buyer Id - Id de l'acheteur tor006
Telephone No. - N° de téléphone (416) 697-9289 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE Aerospace and Telecommunication Engineering Support 8 Wing Trenton Astra Ontario K0K3W0 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Public Works and Government Services Canada
Ontario Region
10th Floor, 4900 Yonge Street
Toronto
Ontario
M2N 6A6

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

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TOR-9-42091

Buyer ID - Id de l'acheteur
TOR006
CCC No./N° CCC - FMS No./N° VME

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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 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](#) (2019-03-04) 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 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 - PWGSC
10th Floor, 4900 Yonge Street
Toronto, Ontario
M2N 6A6

TPSGC.ordreceptiondessoumissions-orbidreceiving.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.

Facsimile number: 416-952-1256

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 Ontario, Canada.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

PART 3 - BID PREPARATION INSTRUCTIONS

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 (2 hard copies)
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.

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

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

See Annex "D" – Evaluation Criteria

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

- a) The Bidders must submit pricing in accordance with Annex B, Basis of Payment, with their bid at bid closing.
- b) The Total Evaluated Price will be the sum of Section 1, Section 2, and Section 3 which will be calculated as follows:
 - Section 1, Firm Requirement – The Total Extended Price will be the Firm Lot Price;
 - Section 2, Optional Requirements – The Total Extended Price will be the aggregate of the Firm Lot Prices for Option Years 1-4;
 - Section 3, Training – The Total Extended Price will be the aggregate Firm Lot Price (B1+B2);
- c) *SACC Manual* Clause [A0220T](#) (2014-06-26), Evaluation of Price – Bid

4.2 Basis of Selection – Mandatory Technical Criteria

A bid must comply with all requirements of the bid solicitation and meet all mandatory evaluation criteria to be declared responsive. The responsive bid with the lowest Evaluated Price 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 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.

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 [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](#) (2018-06-21), 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

The period of the Contract is from date of Contract to 31 March 2025.

6.4.2 Delivery Date

All the deliverables must be received on or before March 31, 2020.

6.4.3 Option to Extend the Contract

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to Four (4) additional One (1) year period(s) under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least 5 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

6.4.4 Delivery Points

The Contractor must deliver one complete Eddy Current Array system purchased to Department of National Defence – CFB Trenton at the following shipping address:

8 Wing Trenton
ATESS Main Warehouse
35 Westwin Ave
Astra, Ontario, CA
K0K 3W0

6.5 Authorities

6.5.1 Contracting Authority

Solicitation No. - N° de l'invitation
W3474-203011/A
Client Ref. No. - N° de réf. du client
W3474-203011

Amd. No. - N° de la modif.
File No. - N° du dossier
TOR-9-42091

Buyer ID - Id de l'acheteur
TOR006
CCC No./N° CCC - FMS No./N° VME

The Contracting Authority for the Contract is:

Name: Guo Liao
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 10th Floor, 4900 Yonge Street
Toronto, Ontario
M2N 6A6

Telephone: 416 697 9289
E-mail address: guo.liao@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:
(*Inserted at Contract Award*)

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

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

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

6.5.3 Contractor's Representative

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

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

6.6 Payment

6.6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex "B" for a cost of \$ __ (*Inserted 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 Electronic Payment of Invoices – Contract

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

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

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.

Each invoice must be supported by:

- a. a copy of the release document and any other documents as specified in the Contract;
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the 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.

6.8.2 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms 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 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 [2010A](#) (2018-06-21), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment
- (e) the Contractor's bid dated _____

6.11 Defence Contract

SACC Manual clause [A9006C](#) (2012-07-16) Defence Contract

6.12 Insurance - No Specific Requirement

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

ANNEX "A"

REQUIREMENT

TITLE: Non-Destructive Testing Development - Eddy Current Array System

1.0 BACKGROUND

The Department of National Defence (DND), Canadian Forces Base (CFB) Trenton, Trenton, ON, Aerospace and Telecommunication Engineering Support Squadron's Non-Destructive Testing Centre Development Section (ATESS/NDTC/DS), is responsible for developing new NDT inspection techniques for the Royal Canadian Air Force (RCAF). Additionally, ATESS/NDT/DS is responsible for investigating new and emerging NDT methods and technologies that may be of benefit to resolving in-service inspection problems and identifying and validating new capabilities that these emerging technologies afford.

2.0 SCOPE

The ATESS/NDT/DS requires the supply, delivery, training, maintenance and installation of one (1) complete Eddy Current Array (ECA) system for research and development purposes. The complete system must include one (1) ECA instrument, two (2) batteries, one (1) power supply, one (1) manual PDF copy in English, and one (1) hard case, which meets all requirements of Section 3.1 described below, along with one (1) encoder and two (2) probes as listed in Section 3.2.

3.0 TECHNICAL REQUIREMENTS

The complete Eddy Current Array system must meet or exceed each of the specifications outlined below:

3.1 General:

- i. Must have Single pass axial and transverse crack detection
- ii. Must have a User interface that has a push button control and multi-touch screen providing zooming, scrolling and rotating views;
- iii. Must be able to create and save inspections with specific parameters, downloadable with administrative rights;
- iv. Must be a standalone, portable unit;
- v. Must have simultaneous multi frequency and multi-channel functionality with at least 64 channels with internal multiplexer;
- vi. Must have a driving probe of at least 48 coils at four frequencies per coil;
- vii. Must have a Data acquisition storage of a minimum 100 GB internal SSD and at least two USB 2.0 ports;
- viii. Display must be a minimum 1024 x 768 pixels;
- ix. Must have simultaneous presentation of Lissajous and C-Scan strip charts;
- x. Must have a minimum of two (2) batteries, hot swappable, with minimum six hours life;
- xi. Must have an Operating temperature of 0 to 40 C without performance degradation;
- xii. Must have a minimum Frequency Range of 5 Hz to 10 MHz;
- xiii. Must have connectivity features that permit connection for each:

- o (a) keyboard, and
 - o (b) mouse, 39
 - o (c) Bluetooth and WI-FI must be locked out or disabled;
- xiv. Must have Video – HDMI ports;
- xv. Must have installed Desktop software for Non Destructive Testing image analysis;
- xvi. Must have Compatibility, direct or through an adaptor with other manufacturer's eddy array probes currently used by RCAF NDT-;
 - o Olympus SDC-021-002-016
 - o Olympus SAB-056-005-032
 - o Olympus SAB-067-005-032
 - o Olympus SDB-021-005-032
 - o Olympus SAA-112-005-032
 - o Olympus FBB-051-500-032 connected to Olympus Cable CAB-032-OMB_5
- xvii. Must have a minimum drop rating of one meter or greater;
- xviii. Must have a minimum compliance rating of IP65 (Ingress Protection).

3.2 Probes/Encoder:

The system must include two probes and one encoder that must meet or exceed each of the specifications outlined below:

- i. Probe 1 - Flexible Array Probe for Wheel Scanning:
 - a. Must have a minimum bend radius of 1”;
 - b. Must have a minimum 2” scan coverage area;
 - c. Must have a central frequency in the range of 100KHz – 300 KHZ;
 - d. Must have a 1mm minimum detectable crack length; and
 - e. Must have a minimum 48 coils.
- ii. Probe 2 - High Resolution Array Probe for Riveted Structures:
 - a. Must have a body style optimized for smooth flat or curved surfaces of 8” OD (outer diameter) or higher;
 - b. Must have a minimum 1” scan coverage area;
 - c. Must have a Central frequency in the range of 400KHz – 600KHz;
 - d. Must have a 0.5mm minimum detectable crack length; and
 - e. Must have a Minimum 32 coils.
- iii. Encoder – Must be a Click or Clip-on encoder for surface probes.

3.3 Training

3.3.1 The Contractor must provide the following training:

- i. 3-day training course for up to four inspectors at contractor's location or on-site at 8 Wing/CFB Trenton, to include:
 - a. Eddy Current Array theory;
 - b. Benefits;
 - c. Limitations;
 - d. Applications;

- e. Instrument familiarization of all features (interface, settings, scanning and acquiring data);
- f. Setting and saving parameters to create inspection setups;
- g. Practical experience with non-ferromagnetic test samples; and
- h. In-depth data analysis and generating reports.

3.3.2 Training must be coordinated between ATESS/NDTC/DS Project Authority and Contractor prior to delivery of system, and must be conducted between one week prior and up to three weeks after receipt of system.

3.3.3 DND will determine whether training will be required at the Contractor's location or whether the Contractor must travel to CFB Trenton, Trenton, Ontario.

3.3.4 All travel and living related expenses related to training must be at the Contractors expense.

3.4 System Software

The system software that must meet or exceed each of the specifications outlined below:

3.4.1 The Contractor must provide one year of renewable software update and technical support to maintain data acquisition and analysis capabilities at no cost to Canada; and

3.4.2 The Contractor must provide up to five one year options for renewable software update and technical support to maintain data acquisition and analysis capabilities.

3.5 Maintenance/Tech Support:

3.5.1 The Contractor must provide the following warranty:

- i. Minimum 1 year Parts and Labour warranty and tech support; and
- ii. Follow-on options for support for up to four (4) years, service and parts replacement after initial warranty period.

3.5.2 The Contractor must provide warranty and service support to determine repairs and replacement parts required, within five (5) business days of receiving parts. The Contractor must use service personnel who are authorized by the manufacturer.

3.5.3 The Contractor must be able of procuring, supplying, and where applicable, installing warranty and replacement service parts for the system, not to exceed 30 calendar days from the date said parts, items or service are deemed mandatory by the company certified repair technician, in order to return the unit to fully operational capability.

4.0 DELIVERABLES

- i. One 'system' (Section 2.0), two probes and encoder (Section 3.2)

Delivery of system, probes and encoder to following address:

8 Wing Trenton
ATESS Main Warehouse
35 Westwin Ave

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Astra, Ontario, CA
K0K 3W0

- ii. As indicated in Section 3.3, training (either at Contractor location or on-site) will be coordinated prior to delivery of system, and completed no later than three weeks after system delivery

ANNEX "B"

BASIS OF PAYMENT

All inclusive, firm prices in Canadian funds, transportation included, FOB destination, Canadian Customs duties and excise taxes included. GST/HST extra if applicable.

****NOTE**** Bidders must provide a price quote for each of B1 and B2 for Section 3 – Training. This pricing will be used for Evaluation Purposes only and either B1 or B2 along with this note will be removed at the time of Contract Award.

1. Firm Requirement

A	B
Description	Firm Lot Price
For the supply, delivery, training, maintenance and installation of one (1) Eddy Current Array System, in accordance with the specifications detailed at Annex A 3.0 Requirements.	\$ _____

Total Extended Price for Section 1- Firm Requirement: \$ _____

2. Optional Requirements

Year 2, Option Year 1 (April 1, 2021 to March 31, 2022)
Year 3, Option Year 2 (April 1, 2022 to March 31, 2023)
Year 4, Option Year 3 (April 1, 2023 to March 31, 2024)
Year 5, Option Year 4 (April 1, 2024 to March 31, 2025)

A	B	C	D	E
Description	Year 2, Option Year 1	Year 3, Option Year 2	Year 4, Option Year 3	Year 5, Option Year 4
For the maintenance and technical support services of Eddy Current Array System, in accordance with Section 3 and Section 4 of Annex A, Requirement	\$ _____	\$ _____	\$ _____	\$ _____

Total Extended Price for Section 2 – Optional Requirement (B+C+D+E): \$ _____

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3. Training

A	B
Description	Firm Lot Price
For the Training in accordance with Section 3.3 Training Requirements at Annex A, Requirement. Training at Contractor's Location Or Training at 8 Wing/CFB Trenton, Trenton, Ontario (Travel and Living Expenses included)	 B1 \$ _____ Or B2 \$ _____

Total Extended Price for Section 3 – Training (B1 + B2): \$ _____

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ANNEX "C"

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)

ANNEX “D”

EVALUATION CRITERIA

The Bidder must provide documentation in their bid demonstrating that their proposed eddy current array system meets every criterion. Supporting documentation could include but not limited to, a printed operator's manual, printed technical/sales brochures and/or certifications.

Failure to provide supporting documentation may result in the bid being deemed non-responsive.

Mandatory Technical Evaluation Criteria

The Bidder must demonstrate that their proposed Eddy Current Array System has the following specification, functions and accessories.

1. General Mandatory Technical Criteria

Item	Mandatory Technical Criteria	Bidder's Response. Identify where the supporting documentation is located in the bid. (Bidders to insert page number)
1.1	Must have Single pass axial and transverse crack detection	_____ Page/Section Number
1.2	Must have a User interface that has a push button control and multi-touch screen providing zooming, scrolling and rotating views	_____ Page/Section Number
1.3	Must be able to create and save inspections with specific parameters, downloadable with administrative rights	_____ Page/Section Number
1.4	Must be a standalone, portable unit	_____ Page/Section Number
1.5	Must have simultaneous multi frequency and multi-channel functionality with at least 64 channels with internal multiplexer	_____ Page/Section Number
1.6	Must have a driving probe of at least 48 coils at four frequencies per coil	_____ Page/Section Number
1.7	Must have a Data acquisition storage of a minimum 100 GB internal SSD and at least two USB 2.0 ports	_____ Page/Section Number
1.8	Display must be a minimum 1024 x 768 pixels	_____ Page/Section Number

1.9	Must have simultaneous presentation of Lissajous and C-Scan strip charts	<u>Page/Section Number</u>
1.10	Must have a minimum of two (2) batteries, hot swappable, with minimum six hours life	<u>Page/Section Number</u>
1.11	Must have an operating temperature of 0 to 40 C without performance degradation	<u>Page/Section Number</u>
1.12	Must have a minimum Frequency Range of 5 Hz to 10 MHz	<u>Page/Section Number</u>
1.13	Must have connectivity features that permit connection for each: (a) keyboard, and (b) mouse (c) Bluetooth and WI-FI must be locked out or disabled	<u>Page/Section Number</u>
1.14	Must have Video – HDMI ports	<u>Page/Section Number</u>
1.15	Must have installed Desktop software for Non Destructive Testing image analysis	<u>Page/Section Number</u>
1.16	Must have Compatibility, direct or through an adaptor with other manufacturer's eddy array probes currently used by RCAF NDT-; - Olympus SDC-021-002-016 - Olympus SAB-056-005-032 - Olympus SAB-067-005-032 - Olympus SDB-021-005-032 - Olympus SAA-112-005-032 - Olympus FBB-051-500-032 connected to Olympus Cable CAB-032-OMB_5	<u>Page/Section Number</u>
1.17	Must have a minimum drop rating of one meter or greater	<u>Page/Section Number</u>
1.18	Must have a minimum compliance rating of IP65 (Ingress Protection)	<u>Page/Section Number</u>

2. Probe 1 - Flexible Array Probe for Wheel Scanning Mandatory Technical Criteria

Item	Mandatory Technical Criteria	Bidder's Response. Identify where the supporting documentation is located in the bid. (Bidders to insert page number)
2.1	Must have a minimum bend radius of 1"	_____ Page/Section Number
2.2	Must have a minimum 2" scan coverage area	_____ Page/Section Number
2.3	Must have a central frequency 100KHz – 300 KHZ	_____ Page/Section Number
2.4	Must have a 1mm minimum detectable crack length	_____ Page/Section Number
2.5	Must have a minimum 48 coils	_____ Page/Section Number

3. Probe 2 - High Resolution Array Probe for Riveted Structures Mandatory Technical Criteria

Item	Mandatory Technical Criteria	Bidder's Response. Identify where the supporting documentation is located in the bid. (Bidders to insert page number)
3.1	Must have a body style optimized for smooth flat or curved surfaces of 8" OD (outer diameter) or higher	_____ Page/Section Number
3.2	Must have a minimum 1" scan coverage area	_____ Page/Section Number
3.3	Must have a Central frequency of 400KHz – 600KHz	_____ Page/Section Number
3.4	Must have a 0.5mm minimum detectable crack length	_____ Page/Section Number
3.5	Must have a Minimum 32 coils	_____ Page/Section Number

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4. Encoder – Mandatory Technical Criteria

Item	Mandatory Technical Criteria	Bidder's Response. Identify where the supporting documentation is located in the bid. (Bidders to insert page number)
4.1	Must be a Click or Clip-on encoder for surface probes	<hr/> Page/Section Number

ANNEX "E"

ADDITIONAL CERTIFICATIONS

Board of Directors

In accordance with Section 1, Integrity Provisions – Bidder, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name - _____

Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Bidders are required to have a Procurement Business Number (PBN) before Standing Offer award.

Procurement Business Number - _____

Suppliers may register for a PBN online at Supplier Registration Information. For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.