



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

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

800 Burrard Street, Room 219

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

Bid Fax: (604) 775-7526

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 - Pacific
Region

219 - 800 Burrard Street

800, rue Burrard, pièce 219

Vancouver, BC V6Z 0B9

| | |
|--|---|
| Title - Sujet Echo Sounder Equipment | |
| Solicitation No. - N° de l'invitation F1688-170006/A | Date 2017-12-14 |
| Client Reference No. - N° de référence du client F1688-170006 | |
| GETS Reference No. - N° de référence de SEAG PW-\$VAN-584-8256 | |
| File No. - N° de dossier VAN-7-40315 (584) | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-01-26 | Time Zone Fuseau horaire Pacific Standard Time PST |
| 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: Perez, Elizabeth | Buyer Id - Id de l'acheteur van584 |
| Telephone No. - N° de téléphone (604) 671-2613 () | FAX No. - N° de FAX (604) 775-7526 |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF FISHERIES AND OCEANS CULTUS LAKE SALMON RESEARCH LABORATORY 4222 COLUMBIA VALLEY HWY. CULTUS LAKE, BC V2R 5B6 | |

Instructions: See Herein

Instructions: Voir aux présentes

| | |
|--|--|
| 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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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed under Article 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).

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>) 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 (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 120 days

2.2 Submission of Bids

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

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 15 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" must 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 British Columbia.

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

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

Section I: Technical Bid (3 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 and the hard copy, the wording of the hard copy must have priority over the wording of the soft copy.

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that Bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, Bidders should:

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

Section I: Technical Bid

In their technical bid, bidders must demonstrate their understanding of the requirements contained in the bid solicitation and explain how they must meet these requirements.

The technical bid consists of the following:

- i. **Bid Submission Form:** Bidders are requested to include the Bid Submission Form with their bids. It provides a common form in which bidders can provide information required for evaluation and contract award. Using the form to provide this information is not mandatory, but it is recommended. If Canada determines that the information required by the Bid Submission Form is incomplete or requires correction, Canada must provide the Bidder with an opportunity to do so.
- ii. **Substantiation of Technical Compliance:** The technical bid must substantiate the compliance of the Bidder and its proposed solution with the specific articles of Annex A (Requirement) identified in the Substantiation of Technical Compliance Form, which is the requested format for providing the substantiation. The Substantiation of Technical Compliance Form is not required to address any parts of this bid solicitation not referenced in the form. The substantiation must not simply be a repetition of the requirement(s), but must explain and demonstrate how the Bidder must meet the requirements and carry out the required Work. Simply stating that the Bidder or its proposed solution or product complies is not sufficient.

Bidders:

- a Must designate the brand name, model and/or part number of the proposed product; and
- b Must provide complete specifications and descriptive literature to substantiate that the proposed product's meets the mandatory requirements that are specified in the bid solicitation (Form B). Where Canada determines that the substantiation is not complete, the Bidder must be declared non-responsive and disqualified. The substantiation may refer to additional documentation submitted with the bid - this information can be referenced in the "Reference" column of the Substantiation of Technical Compliance Form, where bidders are requested to indicate where in the bid the reference material can be found, including the title of the document, and the page and paragraph numbers; where the reference is not sufficiently precise, Canada may request that the Bidder direct Canada to the appropriate location in the documentation.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex B. Applicable taxes are extra.

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 must be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments must 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 must 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 must evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

- a) Each bid must be reviewed for compliance with the mandatory requirements of the bid solicitation. Any elements of the bid solicitation that are identified specifically with the words "must" or "mandatory" is a mandatory requirement. Bids that do not comply with each and every mandatory requirement must be declared non-responsive and be disqualified.
- b) The mandatory requirements are described in Annex A Requirement.

4.1.2 Financial Evaluation

4.1.2.1 SACC Manual Clause A0220T (2014-06-26), Evaluation of Price

4.2 Basis of Selection

- 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.

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 must declare a bid non-responsive, or must 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 must 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 must 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 must 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 must 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 [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 must 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>) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

6.3.2 Supplemental General Conditions

4001 (2015-04-01) Hardware Purchase, Lease and Maintenance

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to _____ inclusive. (1 year period)

6.4.2 Delivery Date

All the deliverables must be received on or before **March 30, 2018**.

6.4.3 Shipping Instructions – Free on Board Destination

Goods must be consigned and delivered to the destination specified in the contract, FOB Destination including all delivery charges and customs duties and Applicable Taxes.

6.4.4 Delivery and Unloading

1. Delivery trucks must be equipped with an unloading device which will permit unloading at sites with no hydraulic, stationary or other type of unloading facility.
2. When making deliveries, sufficient personnel must be provided to permit unloading of any type of vehicle without the assistance of federal government personnel.

3. At some sites, the delivery truck must be unloaded while parked at the curb. When material is placed on the sidewalk, it must be placed in proximity to the designated entrance so as to be readily accessible to transport by mechanical handling equipment utilized by site personnel.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Elizabeth Perez
A/Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch, Pacific Region
219 - 800 Burrard Street, Vancouver, BC V6Z 0B9

Telephone: 604-671-2613
Facsimile: 604-775-7526
Email Address: elizabeth.perez@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:

To be inserted at time of award.

Name: _____
Title: _____
Address: _____

Telephone: ____ - ____ - ____
Facsimile: ____ - ____ - ____
E-mail: _____

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: _____.

6.6 Payment

6.6.1 Basis of Payment - Firm Unit Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor must be paid firm unit price(s) as specified in Annex B. Customs duties are included and Applicable Taxes are extra.

Canada must 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 Method of Payment

SACC Manual clause H1000C, (2008-05-12) Single Payment

6.6.4 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s) (*to be amended at contract award*):

- 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.
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.

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 must 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 British Columbia.

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), Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) 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

6.11.1 SACC Manual clause B1501C (2006-06-16) Electrical Equipment

6.11.2 SACC Manual clause B7500C (2006-06-16) Excess Goods

6.11.3 SACC Manual clause G1005C (2016-01-28) Insurance – No Specific Requirement

ANNEX A

REQUIREMENT

Autonomous Freshwater Hydroacoustic Echo Sounder System

Fisheries and Oceans Canada's Lake Research Program has a requirement for the supply and delivery of two complete Multi-Frequency Single Beam Autonomous Hydroacoustic Echosounder systems.

1. Background

The identified autonomous hydroacoustic systems are to be used in freshwater lakes to monitor and study the abundances and behavioural patterns of pelagic zooplankton and fish on temporal scales ranging from diel to annual.

In most lakes, zooplankton and fish exhibit diel vertical movements within the water column and seasonal changes in abundance and distribution. Using a range of transducer frequencies on the deployed autonomous hydroacoustic systems, we will be able to track and record the timing and range of these variables and document behavioural shifts in response to changes in lake habitat.

2. Objectives

Information obtained from these studies will be linked to historic and ongoing limnological and fish-based data sets to provide further insights into the understanding of the productivity and food web ecology of key Sockeye Salmon nursery lakes in British Columbia.

3. Mandatory Technical Specifications

| Item No. | Description |
|----------|--|
| 1. | Each complete Multi-Frequency Single Beam Autonomous Hydroacoustic Echosounder system must consist of the Autonomous Hydroacoustic Unit, Floats, Cages, Hydrostatic releases and transmitters and; |
| 2. | Must have onboard alkaline battery power and automated data logging to internal memory (minimum 32 GB); |
| 3. | Must have four single-beam transducers per system capable of discriminating targets by general size class from freshwater zooplankton to juvenile and adult fish (i.e frequency range 70kHz - 455kHz); |
| 4. | Must have beam angles 12 degree or less; |
| 5. | Must have capacity for upward and downward facing taught line mooring deployment, including near-sediment, upward facing deployment (<~1.5m off bottom); |
| 6. | Must have capacity for long-term autonomous deployment (up to one year), with a minimum ping rate of 30 seconds at depths up to 200m; |
| 7. | Must have user-replaceable battery systems available for purchase; |
| 8. | Must have Magnesium sacrificial anode systems capable of protecting against |

| | |
|-----|--|
| | corrosion in fresh waters; |
| 9. | Must have rigid taught-line mooring platform with magnesium sacrificial anode system and adjustable sealed floatation, designed for system-specific buoyancy at water depths of 200m; |
| 10. | System must be capable of remote over-the-side hand deployment from small craft with two employees; |
| 11. | Must have Hydroacoustic release system (i.e. transmitter, receiver, release mechanism), capable recovery with long-term (up to one year) freshwater deployment in water depths up to 200m; |
| 12. | Must have control, data acquisition, and battery life estimation software; |
| 13. | Must have a minimum warranty of one year on all components of each system. |

4. Mandatory delivery date: On or before March 30, 2018

ANNEX B

BASIS OF PAYMENT

Prices must be firm unit prices, FOB Destination, inclusive of all delivery charge, all customs and duty charges, GST extra and PST exempt.

| Item # | Description | Unit of Issue | Quantity | Firm Unit Price | Total Firm Price |
|--------|--|---------------|----------|-----------------|------------------|
| 1. | "Complete" Multi-Frequency Single Beam Autonomous Hydroacoustic Echosounder systems. Make: _____ Model #: _____ | Ea. | 2 | \$ _____ | \$ _____ |
| 2. | Freight – Delivery Charge | Lot | 1 | \$ _____ | \$ _____ |
| | | | | | |
| | Total Firm Price | | | | \$ _____ |

ANNEX C to PART 3 OF THE BID SOLICITATION

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)

FORM A – Bid Submission Form

| Bid Submission Form | | |
|--|--------------|--|
| Bidder's full legal name | | |
| Authorized Representative of Bidder for evaluation purposes (e.g., clarifications) | Name | |
| | Title | |
| | Address | |
| | Fax # | |
| | Email | |
| Bidder's Procurement Business Number (PBN) [see the <i>Standard Instructions 2003</i>] | | |
| Jurisdiction of Contract: Province in Canada the bidder wishes to be the legal jurisdiction applicable to any resulting contract (if other than as specified in solicitation) | | |
| Federal Contractors Program for Employment Equity (FCPEE) Certification: | | |
| COMPLETE LIST OF NAMES OF ALL INDIVIDUALS WHO ARE CURRENT BOARD OF DIRECTORS OF THE BIDDER: | | |
| NAME | TITLE | |
| _____ | _____ | |
| _____ | _____ | |
| _____ | _____ | |
| _____ | _____ | |
| _____ | _____ | |
| <p>On behalf of the Bidder, by signing below, I confirm that I have read the entire bid solicitation including the documents incorporated by reference into the bid solicitation and I certify that:</p> <ol style="list-style-type: none"> 1. The Bidder considers itself and its products able to meet all the mandatory requirements described in the bid solicitation; 2. This bid is valid for the period requested in the bid solicitation; 3. All the information provided in the bid is complete, true and accurate; and 4. If the Bidder is awarded a contract, it will accept all the terms and conditions set out in the resulting contract clauses included in the bid solicitation. | | |
| Signature of Authorized Representative of Bidder | | |

FORM B: Substantiation of Technical Compliance Form**GENERAL INSTRUCTION**

- 1) Bidders are requested to:
 - a) indicate opposite each specification under **MANDATORY SPECIFICATIONS**, in the right hand margin under **Comply**, whether or not the Autonomous Freshwater Hydroacoustic Echo Sounder Systems being offered meets or does not meet the requirements and;
 - b) reference the page number(s) in the provided Technical literature and in the Technical literature, highlight the technical information that supports your compliance with the mandatory specifications below.
- 2) It must be to your advantage to furnish as much detail as possible to support the specifications your comments / claims of compliance for each specification.
- 3) Canada is under NO obligation to seek clarification of the bid(s) or the supporting technical documentation provided. Bidders should note that failure to demonstrate any capability to which they claim compliance must result in their proposal being considered non-responsive. Any deviation is to be clearly identified and supported with full details.

| No. | Mandatory Specification | Comply (Y/N) | Provide Page # and or comments |
|-----|---|--------------|--------------------------------|
| 1. | Each complete Multi-Frequency Single Beam Autonomous Hydroacoustic Echosounder system must consists of the Autonomous Hydroacoustic Unit, Floats, Cages, Hydrostatic releases and transmitters and; | Y / N | |
| 2. | Must have onboard alkaline battery power and automated data logging to internal memory (minimum 32 GB) | Y / N | |
| 3. | Must have four single-beam transducers per system capable of discriminating targets by general size class from freshwater zooplankton to juvenile and adult fish (i.e frequency range 70kHz - 455kHz) | Y / N | |
| 4. | Must have beam angles 12 degree or less | Y / N | |
| 5. | Must have capacity for upward and downward facing taught line mooring deployment, including near-sediment, upward facing deployment (<~1.5m off bottom) | Y / N | |
| 6. | Must have capacity for long-term autonomous deployment (up to one year), with a minimum ping rate of 30 seconds at depths up to 200m | Y / N | |
| 7. | Must have user-replaceable battery systems available for purchase | Y / N | |
| 8. | Must have Magnesium sacrificial anode systems capable of protecting against | Y / N | |

| No. | Mandatory Specification | Comply (Y/N) | Provide Page # and or comments |
|-----|---|--------------|--------------------------------|
| | corrosion in fresh waters | | |
| 9. | Must have rigid taught-line mooring platform with magnesium sacrificial anode system and adjustable sealed floatation, designed for system-specific buoyancy at water depths of 0-200m | Y / N | |
| 10. | System must be capable of remote over-the-side hand deployment from small craft with two employees | Y / N | |
| 11. | Must have Hydroacoustic release system (i.e. transmitter, receiver, release mechanism), capable recovery with long-term (up to one year) freshwater deployment in water depths up to 200m | Y / N | |
| 12. | Must have control, data acquisition, and battery life estimation software | Y / N | |
| 13. | Must have a minimum warranty of one year on all components of each system. | Y / N | |

Solicitation No. - N° de l'invitation
F1688-170006/A
Client Ref. No. - N° de réf. du client
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Amd. No. - N° de la modif.
File No. - N° du dossier
VAN-7-40315

Buyer ID - Id de l'acheteur
VAN584
CCC No./N° CCC - FMS No./N° VME

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Réception des soumissions
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N° de l'invitation : F1688-170006/A

La réception des soumissions prend fin le : 26 Janvier, 2018
à : 14:00 PM PST
