



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada
Room 100,
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6
Bid Fax: (204) 983-0338

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 - Western
Region
Room 100
167 Lombard Ave.
Winnipeg
Manitoba
R3B 0T6

Title - Sujet remotely operated underwater vehicl	
Solicitation No. - N° de l'invitation F2402-180143/B	Date 2018-12-04
Client Reference No. - N° de référence du client F2402-180143	
GETS Reference No. - N° de référence de SEAG PW-\$WPG-010-10723	
File No. - N° de dossier WPG-8-41101 (010)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-12-27	Time Zone Fuseau horaire Central Standard Time CST
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: Maki, Christie	Buyer Id - Id de l'acheteur wpg010
Telephone No. - N° de téléphone (204) 891-6126 ()	FAX No. - N° de FAX (204) 983-7796
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF FISHERIES AND OCEANS CTRL&ARCTIC Christine Michel 501 UNIVERSITY CRES. WINNIPEG Manitoba R3T2N6 Canada	

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

This bid solicitation cancels and supersedes previous bid solicitation number F2402-180143/A dated 2018-10-16 with a closing of 2018-11-26 at 14:00. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION.....	3
1.1 REQUIREMENT.....	3
1.2 DEBRIEFINGS.....	3
1.3 TRADE AGREEMENTS.....	3
1.4 EPOST CONNECT SERVICE.....	3
PART 2 - BIDDER INSTRUCTIONS.....	3
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS.....	3
2.2 SUBMISSION OF BIDS.....	3
2.3 ENQUIRIES - BID SOLICITATION.....	4
2.4 APPLICABLE LAWS.....	4
PART 3 - BID PREPARATION INSTRUCTIONS.....	4
3.1 BID PREPARATION INSTRUCTIONS.....	4
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION.....	6
4.1 EVALUATION PROCEDURES.....	6
4.2 BASIS OF SELECTION.....	6
PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION.....	6
5.1 CERTIFICATIONS REQUIRED WITH THE BID.....	6
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION.....	7
PART 6 - RESULTING CONTRACT CLAUSES.....	7
6.1 SECURITY REQUIREMENTS.....	7
6.2 REQUIREMENT.....	7
6.3 STANDARD CLAUSES AND CONDITIONS.....	7
6.4 TERM OF CONTRACT.....	8
6.5 AUTHORITIES.....	8
6.6 PAYMENT.....	9
6.7 INVOICING INSTRUCTIONS.....	10
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION.....	10
6.9 APPLICABLE LAWS.....	10
6.10 PRIORITY OF DOCUMENTS.....	10
6.11 SACC MANUAL CLAUSES.....	10
6.12 INSURANCE.....	10
6.13 INSPECTION AND ACCEPTANCE.....	10
ANNEX A.....	12
REQUIREMENT.....	12
ANNEX B.....	18

Solicitation No. - N° de l'invitation
F2402-180143/B
Client Ref. No. - N° de réf. du client
F2402-180143

Amd. No. - N° de la modif.
File No. - N° du dossier
WPG-8-41101

Buyer ID - Id de l'acheteur
wpg010
CCC No./N° CCC - FMS No./N° VME

BASIS OF PAYMENT.....	18
ANNEX C TO PART 3 OF THE BID SOLICITATION.....	19
ELECTRONIC PAYMENT INSTRUMENTS.....	19

PART 1 - GENERAL INFORMATION

1.1 Requirement

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

1.2 Debriefings

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

1.3 Trade Agreements

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

1.4 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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](#) (2018-05-22) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2.1.1 SACC Manual Clauses

[B1000T \(2014-06-26\)](#) Condition of Material-Bid

2.2 Submission of Bids

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

BRU: Western Region Bid Receiving Unit (Winnipeg)

Address: Room 100, 167 Lombard Avenue
Winnipeg, Manitoba R3B 0T6

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

Bid Fax: (204) 983-0338

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 Manitoba.

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

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

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

- If the Bidder chooses to submit its bid in hard copies, Canada requests that the Bidder submits its bid in separately bound sections as follows:

Section I: Technical Bid (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.

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

Bidder must complete the Compliance Matrix detailed in Annex A, Requirement. Completion is defined as indication of compliance and cross-reference to each mandatory criterion as outlined in Annex A, Requirement.

4.1.2 Financial Evaluation

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

4.2 Basis of Selection

4.2.1 Basis of Selection – Mandatory Technical Criteria

SACC Manual Clause A0031T (2010-08-16) Basis of Selection – Mandatory Technical Criteria

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 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 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-) (<https://buyandsell.gc.ca/policy-and->

Solicitation No. - N° de l'invitation
F2402-180143/B
Client Ref. No. - N° de réf. du client
F2402-180143

Amd. No. - N° de la modif.
File No. - N° du dossier
WPG-8-41101

Buyer ID - Id de l'acheteur
wpg010
CCC No./N° CCC - FMS No./N° VME

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 November 29, 2019 inclusive.

6.4.2 Delivery Date

Remotely Operated Underwater Vehicle in accordance with Annex A must be received on or before March 29, 2019.

Training in accordance with Annex A must be received on or before August 30, 2019.

6.4.3 Delivery Points

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Christie Maki
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address: 100-167 Lombard Ave, Winnipeg MB R3B 0T6

Telephone: 204-891-6126
Facsimile: 204-983-7796
E-mail address: christie.maki@pwgsc.gc.ca

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

6.5.2 Project Authority

The Project Authority for the Contract is:

Solicitation No. - N° de l'invitation
F2402-180143/B
Client Ref. No. - N° de réf. du client
F2402-180143

Amd. No. - N° de la modif.
File No. - N° du dossier
WPG-8-41101

Buyer ID - Id de l'acheteur
wpg010
CCC No./N° CCC - FMS No./N° VME

To be determined

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

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm unit prices, as specified in Annex B for a cost of \$ TO BE DETERMINED. 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 Multiple Payments

SACC Manual clause H1001C (2008-05-12) Multiple Payments

6.6.3 SACC Manual Clauses

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

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 determined

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 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 Manitoba.

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 SACC Manual Clauses

B1501C (2006-06-16), Electrical Equipment
B7500C (2006-06-16), Excess Goods
C5201C (2008-05-12) Prepaid Transportation Costs

6.12 Insurance

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

6.13 Inspection and Acceptance

Solicitation No. - N° de l'invitation
F2402-180143/B
Client Ref. No. - N° de réf. du client
F2402-180143

Amd. No. - N° de la modif.
File No. - N° du dossier
WPG-8-41101

Buyer ID - Id de l'acheteur
wpg010
CCC No./N° CCC - FMS No./N° VME

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.

Solicitation No. - N° de l'invitation
F2402-180143/B
Client Ref. No. - N° de réf. du client
F2402-180143

Amd. No. - N° de la modif.
File No. - N° du dossier
WPG-8-41101

Buyer ID - Id de l'acheteur
wpg010
CCC No./N° CCC - FMS No./N° VME

ANNEX A

REQUIREMENT

Fisheries and Oceans Canada (DFO), Freshwater Institute (FWI) wish to acquire one underwater remotely operated vehicle (ROV) for research on sea ice ecosystems. The ROV will be used to map and characterize complex under-ice environments, to collect oceanographic and biological data, and to conduct visual surveys of the benthic environment.

Context:

Fisheries and Oceans Canada FWI is purchasing an ROV that will be deployed to characterize sea ice habitats and to gain a better understanding of the ecosystem structure and function of the marine environment in the Last Ice Area. This purchase is required as part of a multidisciplinary research initiative to collect baseline data on complex sea ice ecosystems. The system must be delivered to the following address on or before March 29th 2019:

Fisheries and Oceans Canada
501 University Crescent
Winnipeg (MB)
R3T 2N6

Training:

The Contractor must provide hands on and theoretical training. Training for 2 operators will be provided in English at the Vendor's location. Training must be completed using a comparable ROV system with a similar control system. Training must be provided on or before August 30th 2019. Vendor is not responsible for costs (travel, meals or accommodations) associated with FWI staff attending training at vendor's location.

The training will, at minimum, cover the following topics:

Introduction to ROV and sonar systems, safety procedures, pre and post-dive checks, basic piloting and navigation techniques, equipment launch and recovery, payload operations, tether management, emergency recovery procedures, maintenance and troubleshooting.

Future additional training (separate from this contract and at additional expense) in a remote location may be required.

MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS- COMPLIANCE MATRIX

INSTRUCTIONS

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

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

Requirement	Manufacturer Offered:	Model Number Offered:
One remotely operated underwater vehicle (ROV).		

MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS- COMPLIANCE MATRIX

Mandatory Performance Specifications		Specification being offered: Bidder should record in this column how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders should cross-reference where this performance specification is indicated in their supporting documents
Fisheries and Oceans Canada (DFO), Freshwater Institute (FWI) has a requirement for the supply, and delivery of an underwater remotely operated underwater vehicle (ROV) for multiyear sea ice research in the Canadian high Arctic. Training on how to use the ROV is also required. The ROV must have the following specifications and meet the operational requirements below:			
1.0	Mandatory Operational Requirements		
1.1	Must be able to descend 200 m, conduct a visual survey transect of at least 400 m in total length, and return to base. If the system is battery powered, this survey be possible on a single charge.		
1.2	Must be able to be deployed and operated through a 1.5 m x 1.5 m hole in sea ice.		

2.0	Mandatory Technical Requirements		
2.1	Must have a minimum depth rating of 200m in salt water.		
2.2	Must operate in salt water at a temperature range of at minimum -1.8°C to 25 °C.		
2.3	The base ROV unit weight in air must be less than 30 kg not including batteries, ballast or sensors.		
2.4	Must be capable of motion with 6 degree of freedom including active stabilization in roll and pitch.		
2.5	Must have a motor capable of propelling the ROV at a speed of at least 1m/s.		
2.6	Must have a tether of at least 300 m in length with a tether management system. A manual reel is acceptable.		
2.7	Must have a tether tangle recovery system.		
2.8	Must have an underwater positioning system and sonar altimeter.		
2.9	Must have a high definition, low lux camera with a minimum resolution of 1080p.		
2.10	Must have a lighting array of at least 2 x 1500 lumen lights.		
2.11	Must have a manipulator arm capable of collecting samples, recovering objects and untangling tether snags. Able to be opened and closed from the hand controller or control panel		

	with a maximum jaw opening of 7 cm and a depth rating of at least 200 m.		
2.12	Must have the option to add sensors on an as needed basis. The ROV must be compatible with and able to carry an upward looking spectroradiometer, CTD, CDOM/FDOM sensor, and fluorometer. The supplier is not responsible for supplying these sensors.		
2.13	Sensor data must be able to be multiplexed when new sensors are added.		
2.14	Must include a laser scaler attachment that allows for estimation and measurement without tilting the unit.		
2.15	Must be powered by an intelligent battery system that does not allow discharge below a recoverable voltage. Alternatively, the system can be powered by our 2000-watt 120V AC generator.		
3.0	Mandatory Components		
3.1	Must include hand controller for piloting ROV and a backup controller.		
3.2	Must come with maintenance kit that includes parts such as domes, seals, and basic hardware.		
3.3	Must include two battery sets, if battery powered.		

3.4	Must include a battery-charging dock if the system is battery powered.		
4.0	Mandatory Training and Support		
4.1	Supplier must provide technical and operational support by phone or email during business hours.		
4.2	Supplier must provide training covering topics such as setup, operational capability, basic piloting, troubleshooting, cleaning, and basic maintenance.		
5.0	Delivery		
5.1	The system must be delivered to the following address on or before March 29 th 2019: Christine Michel Fisheries and Oceans Canada 501 University Crescent Winnipeg (MB) R3T 2N6		
5.2	Training must be provided on or before August 30 th 2019.		

ANNEX B

BASIS OF PAYMENT

It is **MANDATORY** that Bidders submit firm prices/rates for the period of the proposed Contract for all items listed hereafter. **This section, when completed, will be considered as the Bidder's financial proposal.**

Bidders must provide bids as per unit of issued requested. It is the responsibility of the bidder to provide conversion to the unit of issue requested. Failure to do so will render the bid non-responsive without further consideration.

Should there be an error in the extended pricing it shall be corrected in the evaluation. Any errors in the quantities of the Bidder's proposal shall be changed to reflect the quantities stated in the RFP.

Prices quoted must remain firm for the period of the Contract. Prices **MUST** include ALL costs, including customs if applicable, associated with providing the work in accordance with the Requirement, Annex A attached herein. GST, if applicable, is to be shown as a separate item on any resulting invoice. Payment will be made in accordance with the following pricing. Pricing must be in Canadian funds.

FOB Destination:

Item	Description	Qty	Unit of Issue	Unit Price CDN\$
1	One remotely operated underwater vehicle (ROV) in accordance with the mandatory performance specifications detailed in Annex A – Requirement. Model Number: _____	1	each	\$
2.	Training in accordance with the mandatory performance specifications detailed in Annex A – Requirement. All-inclusive price	1	each	\$
4.	Delivery charges: including freight, customs and off-loading charges to: Fisheries and Oceans Canada 501 University Crescent Winnipeg (MB) R3T 2N6	1	each	\$

Solicitation No. - N° de l'invitation
F2402-180143/B
Client Ref. No. - N° de réf. du client
F2402-180143

Amd. No. - N° de la modif.
File No. - N° du dossier
WPG-8-41101

Buyer ID - Id de l'acheteur
wpg010
CCC No./N° CCC - FMS No./N° VME

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)