



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

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

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

Halifax

Nova Scotia

B3J 1T3

Bid Fax: (902) 496-5016

REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

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

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

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

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

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

Halifax

Nova Scot

B3J 1T3

Title - Sujet Mid-Water Winch	
Solicitation No. - N° de l'invitation F5956-180550/A	Date 2018-10-28
Client Reference No. - N° de référence du client F5956-18-0550	
GETS Reference No. - N° de référence de SEAG PW-\$HAL-405-10538	
File No. - N° de dossier HAL-8-81144 (405)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-12-11	Time Zone Fuseau horaire Atlantic Standard Time AST
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: Kendell, Byron	Buyer Id - Id de l'acheteur hal405
Telephone No. - N° de téléphone (902) 497-5345 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF FISHERIES AND OCEANS BEDFORD INST.OC VULCAN BLDG VG-05 1 CHALLENGER DRIVE RC: 21713 - RCM KRISTIAN CURRAN DARTMOUTH NOVA SCOTIA B2Y4A2 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

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The Department of Fisheries and Oceans has a requirement for the supply and delivery of one mid-water winch and aluminum transport pallet assembly as detailed in Annex A for use in support of its mid-water benthic monitoring program.

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

[B4024T](#) (2017-07-01), No Substitute Products

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.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **five (5)** calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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

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

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 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 D Electronic Payment Instruments, to identify which ones are accepted.

If Annex D Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

3.1.2 Exchange Rate Fluctuation

[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

Mandatory Technical Criteria are listed at Annex C. Bidders are to provide the information requested in Annex C and return it with their submission. Failure to submit all of the information requested in Annex C will deem a submission non-compliant.

4.1.2 Financial Evaluation

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

4.2 Basis of Selection

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 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 supply and deliver one mid-water winch and aluminum transport pallet assembly in accordance with 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 Delivery Date

Prior to shipping the deliverables, the vendor must provide proof of performance, as described at Annex A, to the Project Authority for acceptance. Only upon receiving acceptance from Canada will the vendor ship the deliverables. All deliverables must be received on or before **15 March, 2019.**

6.4.3 Delivery Points

Delivery of the requirement will be made to:

Ocean Engineering and Technology Section
Science Sector, Maritimes Region
Fisheries and Oceans Canada
Bedford Institute of Oceanography
1 Challenger Drive, PO Box 1006
Dartmouth, Nova Scotia
Canada B2Y 4A2

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Byron Kendell
Title: Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 1713 Bedford Row, Halifax, NS B3J 3C9

Telephone: 902-402-9436
Facsimile: 902-496-5016
E-mail address: byron.kendell@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 **(completed 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 (to be completed by bidder)

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

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

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in **Annex B** for a cost of \$ insert amount at contract award. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

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 Single Payment

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

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

6.6.3 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.
2. Invoices must be distributed as follows:
 - a. The original and two (2) copies must be forwarded to the following address for certification and payment:

Fisheries and Oceans
Ocean Engineering & Field Operations
Bedford Institute of Oceanography
1 Challenger Drive
Dartmouth, NS B2Y 4A2

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.9 Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

6.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2018-06-21);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (*insert date of bid*).

ANNEX A

REQUIREMENT

1. BACKGROUND

Fisheries and Oceans Canada (DFO) is seeking a new portable winch in support of its mid-water benthic monitoring program. In general, the winch is to be constructed of lightweight aluminum, as it is to be transportable by a full-sized pickup truck. The winch should be a stand-alone unit that is designed and configured to be safely mounted to a small coastal vessel. It must have a variable speed electric drive and be designed to directly mate with various mounting appliances without the need for realignment of winch components or structure. Importantly, the winch is to include a *Moog Focal* (no substitute) electro-optical slip ring. This type of slip ring is compatible with other existing DFO science winches and fibre optic instrumentation. Last, the winch will include a matched pallet for loading aboard a vessel or onto a truck, by crane and/or by forklift. All work is to be completed off-site at the Contractor's facility for shipping and delivery to the Bedford Institute of Oceanography, Dartmouth, Nova Scotia, Canada, by 15 March 2019. More details of this procurement follow below.

2. MANDATORY CRITERIA

The mid-water winch must meet all of the following mandatory criteria to be considered for evaluation against the lowest price evaluation criteria:

General Design:

Winch general design must meet each of the following mandatory criteria:

1. Winch and pallet spatial footprint is to be maintained within 1.2 m x 1.2 m (3.94 ft. x 3.94 ft.) in area, with a combined maximum weight not to exceed 450 kg (approximately 1000 lbs.). This is to ensure that the winch and pallet assembly, including retention straps, will fit between the wheel-wells of the bed of a full-sized pickup truck and can be safely transported by such means.
2. Continuous welded and bolted aluminum frame, Canadian Welding Board (CWB) or equivalent certified welding program, 6061-T6 or similar marine grade weldable aluminum.
3. Three Coat, zinc enriched epoxy paint system or similar heavy duty corrosion resistant coating.
4. Drum designed with a minimum center diameter of 25.4 cm (10") to accommodate a cable that is 500 m (approximately 1,650 ft.) in length and 7 mm (0.28") in diameter, which will be installed by the Client post-winch delivery (i.e., cable not to be provided or installed by Vendor).
5. All components will be designed for use in a marine environment that will be exposed to rain, salt spray, direct wave action, and temperature variations.
6. All bearings are to be sealed and filled with low temperature synthetic grease.
7. Connectors and are to be field serviceable and rated at a minimum IP 67.
8. Enclosures are to be 316 Stainless Steel and rated at NEMA 4X/IP 56.
9. Fasteners are to be 316 Stainless Steel.
10. Winch is to be fitted with suitable guards to protect externally-mounted components during transport and from personnel during winch operations.
11. Belaying points at the front of the winch, both sides, to allow the stopping of the cable with cable gripper and/or rope. These should be designed to sustain a minimum of 340 kg (750 lbs.) tension.

Power:

Winch power must meet each of the following mandatory criteria:

12. 220 VAC, Single phase.
13. Length of power cable to be 15.24 m (50 ft.).
14. Power cable to be fitted with a 30 Amp, Single phase, 3 pin (single phase plus ground) **Hubbell HBL330P6W** ('no substitute') plug, which will connect to a DFO ship-based Hubbell HBL330MI6W mechanically-interlocked single phase disconnect which is currently fitted to program-specific science vessels.
15. Power cable is to have dedicated storage that will protect it from damage during transport. Cable is to remain within the winch footprint when stowed for transport.
16. IP56 TENV motor for deck wash applications, C-flange mounting for drives.
17. NEMA 4X/IP56 stainless steel enclosures, controls, heaters, and indicators.

Performance Criteria:

Winch performance must meet each of the following mandatory criteria:

18. Designed for continuous Cold Temperature Operation (approximately -20 °C) and for continuous operation at normal summer temperatures (approximately +25 °C).
19. Soft start control for pay-in and pay-out.
20. Drum speed infinitely variable on pay-out and pay-in.
21. Minimum cable speed of 20 m per minute on pay-out and pay-in.
22. Drum tension maintained on pay-out and pay-in:
 - a. Minimum cable pull: 165 kg (364 lbs.) on bare drum, at full speed.
 - b. Minimum cable pull: 125 kg (276 lbs.) on full drum, at full speed.
23. Winch to include an adjustable fairlead that will permit a cable angle adjustable from horizontal (0°) to 35-45° above horizontal when the winch is level, without any reduction in performance.
24. Spooling to be electronically controlled and fully adjustable, in the field, to accommodate a variety of cables. Spooling control is to have a manual jog feature to allow adjustment during operations and to correct spooling error.
25. Any digital display(s) fitted to the winch or controls is to be readable in bright sunlight.

Main Control Panel and Remote Control Panel Criteria:

Winch control panels must meet each of the following mandatory criteria:

26. Winch is to be fitted with a fixed Main Control Panel and a detachable portable Remote Control Panel.
27. Winch Main Control Panel is to be positioned to allow safe and easy operation of the winch. The configuration should provide a clear view of the cable fed from the winch, direct view of the panel and the readouts, and immediate access to the emergency stop while operating winch controls.
28. Main Control Panel configuration:
 - a. Main Control Panel and controls must remain within the winch footprint.
 - b. Switch to select either the local or remote joystick.
 - c. Overload/maximum winch pull indicator.
 - d. Start and stop control.
 - e. A single joystick with brackets to protect from accidental operation or two buttons (haul-in/pay-out) with a rheostat. Both configurations shall provide infinite bi-directional control.
 - f. Meter counter to be included.
 - g. Emergency stop control to be included.

-
29. Winch is to be fitted with a detachable portable Remote Control Panel that can operate the winch remotely via an umbilical. The umbilical is to be fitted with a waterproof connector that allows the cable and the portable panel to be removed and stowed. The inline connector and the panel mount connector shall have Original Equipment Manufacturer (OEM) caps that maintain its waterproof rating when the control panel is not connected.
30. Remote Control Panel configuration:
- Designed to mount to a bench top.
 - Panel should be of a compact design and light weight
 - Include 15.24 (50 ft.) of cable.
 - Overload/maximum winch pull indicator.
 - Start and stop control.
 - A single joystick with infinite bi-directional control.
 - Meter counter to be included.
 - Emergency stop control to be included.
 - Remote control umbilical is to have a dedicated storage case that will protect it from damage during transport.

Slip Ring Criteria:

Winch slip ring must meet each of the following mandatory specifications:

31. Winch is to be fitted with a **Moog Focal Model 180/206 Electro-Optical Slip Ring** ('no substitute'). This type of slip ring is compatible with other existing DFO science winches and fibre optic instrumentation. The slip ring is to be configured as follows:
- 8 electrical passes rated to 1000 VAC, 7A per pass:
 - 2 m pigtails.
 - 1 single mode fibre pass, 9/125 µm SMF-28:
 - ST connectors;
 - 2 m pigtails.
 - Replaceable fibre pigtails.
 - Non-rotating flange (external to the winch) is to be plastic with 90 degree entry with hose barb for a hose with 2.54 cm (1.0") inner diameter (ID).
 - Rotating flange (internal to winch) to have hose barb for a hose with 2.54 cm (1.0") inner diameter (ID). Material and exit angle to be determined by winch manufacturer.
32. Slip ring is to be mounted in the winch drum. Only the non-rotating element, with associated brackets and guards, and the data cable connection, may extend beyond the end of the drum so as to maintain compact size.
33. The slip ring is to be protected by a guard that will effectively shield it from damage during transport and operation.

Operating Software and Operating Manual Criteria:

Winch operating software and operating manual must meet each of the following mandatory criteria:

34. Vendor to supply one complete set of electronic versions of all operating software (e.g., for a Programmable Logic Controller, or PLC), in an agreed upon media format, to enable reloading of the software (e.g., during repair winch), as required, in the field. The Client has no requirement to edit or modify this software; software is only intended for field servicing and repair of the winch. A documented procedure for installing this software is to be provided.
35. Vendor is to supply one complete set of communication cables and/or dongles for software installation in the field. It is noted that, in some cases, the costs associated with licencing software can be prohibitive. Vendor may suggest alternatives for review of repair of the PLC during the bid process.

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36. Vendor will supply one hard copy and one electronic copy (in PDF format) of all winch operating manuals, including but not limited to: parts lists; blueprints; schematics; wiring diagrams; operating instructions; recommended spares lists; and/or a detailed maintenance schedule covering the lifecycle of the winch (approximately 20 years).
 37. All documentation, software, and manuals are to be provided to the Client at time of delivery. Note that software, documentation, and manuals are to be updated (in all formats) to reflect the final "As Fitted" condition of the winch prior to final delivery.

Pallet Criteria:

Winch pallet must meet each of the following mandatory criteria:

38. Winch and pallet assembly footprint is to be maintained within 1.2 m x 1.2 m (3.94 ft. x 3.94 ft.).
39. Continuous welded aluminum frame, Canadian Welding Board (CWB) or equivalent certified welding program, 6061-T6 or similar marine grade weldable aluminum.
40. Lift points designed for 4:1 safety factor at the four corners. Lift points are to be designed to carry the load of the fully assembled (i.e., loaded winch with pallet attached). Cable weight is ~150Kg (330lb).
41. Pallet to have tie-down points that are separate from the lift points, in order to secure the loaded winch to the pallet for transport.
42. Pallet is to be fitted with fork tubes for forklift transport of the winch to avoid damage to the winch. Tubes cross sections are to be nominally 7.5 cm (3") high x 20 cm (7.5") long (inside measurements) and are to be spaced so that the fork tubes are spaced 1 m(outside measurement) to accommodate DFO's material handling equipment.
43. Pallet design to allow transport of the winch with a fully loaded drum.

Completion of Contract Criteria:

Winch completion of contract must meet each of the following mandatory criteria:

44. Prior to winch acceptance, Vendor must demonstrate and/or provide proof of performance that clearly demonstrates winch capabilities. For example, this may be in the form of a performance test, a performance certificate, or performance under-written by an acceptance warranty. If a performance test, this must be made accessible to the Client, and any costs to attend such test is to be borne by the Vendor, or is to be scheduled locally proximal to Dartmouth, Nova Scotia.

Shipping and Delivery Criteria:

Winch shipping and delivery must meet each of the following mandatory criteria:

45. Upon successful completion of testing (at Canada's discretion) and after addressing any deficiencies, with additional performance testing as required, the Vendor is to ship and deliver one mid-water winch and aluminum transport pallet assembly in accordance with the terms of the contract by 15 March 2019.

ANNEX B

BASIS OF PAYMENT

To be submitted with bid.

All prices are in Canadian dollars, Goods and Services Tax or the Harmonized Sales Tax excluded, Canadian Customs Duties Taxes included.

Item (A)	Unit of Issue (B)	Qty (C)	Unit Price (D)	Extended Price (CxD) (E)
Mid-water winch with aluminum transport pallet assembly Make and Model:	EA	1	\$	\$
Delivery (Incoterms 2010, DDP Destination)		1		\$
			TOTAL	\$

ANNEX C

MANDATORY TECHNICAL CRITERIA

1. INSTRUCTIONS

- i) Proposals will be evaluated in accordance with the Mandatory Criteria detailed herein. A Bidder's Proposal must clearly demonstrate that they meet the entire requirement in the Mandatory Criteria for the Proposal to be considered for further evaluation. Proposals not meeting the Mandatory Criteria will be excluded from further consideration.
- ii) All Proposals are to be submitted using this Application Form provided. The Bidder must clearly demonstrate on the Application Form how they meet each Mandatory Criteria. The Bidder must provide any supplemental material that is referenced on the Application Form, which supports the response or serves as proof of a response for validation purposes (e.g., design schematics, etc.).
- iii) Should the information provided by a Bidder require clarification, Canada may, at its discretion, follow-up with the Bidder to clarify the information. Notwithstanding, the onus remains on the Bidder to submit all information and proof needed to clearly demonstrate that all Mandatory Criteria requirements are met.

2. MANDATORY CRITERIA

NO.	MANDATORY CRITERIA	BIDDER RESPONSE
<u>General Design Criteria:</u>		
1	Winch and pallet spatial footprint is to be maintained within 1.2 m x 1.2 m (3.94 ft. x 3.94 ft.) in area, with a combined maximum weight not to exceed 450 kg (approximately 1000 lbs.). This is to ensure that the winch and pallet assembly, including retention straps, will fit between the wheel-wells of the bed of a full-sized pickup truck and can be safely transported by such means.	
2	Continuous welded and bolted aluminum frame, Canadian Welding Board (CWB) or equivalent certified welding program, 6061-T6 or similar marine grade weldable aluminum.	
3	Three Coat, zinc enriched epoxy paint system or similar heavy duty corrosion resistant coating.	

NO.	MANDATORY CRITERIA	BIDDER RESPONSE
4	Drum designed with a minimum center diameter of 25.4 cm (10") to accommodate a cable that is 500 m (approximately 1,650 ft.) in length and 7 mm (0.28") in diameter, which will be installed by the Client post-winch delivery (i.e., cable not to be provided or installed by Vendor).	
5	All components will be designed for use in a marine environment that will be exposed to rain, salt spray, direct wave action, and temperature variations.	
6	All bearings are to be sealed and filled with low temperature synthetic grease.	
7	Connectors and are to be field serviceable and rated at a minimum IP 67.	
8	Enclosures are to be 316 Stainless Steel and rated at NEMA 4X/IP 56.	
9	Fasteners are to be 316 Stainless Steel.	
10	Winch is to be fitted with suitable guards to protect externally-mounted components during transport and from personnel during winch operations.	
11	Belaying points at the front of the winch, both sides, to allow the stopping of the cable with cable gripper and/or rope. These should be designed to sustain a minimum of 340 kg (750 lbs.) tension.	
Power Criteria:		
12	220 VAC, Single phase.	
13	Length of power cable to be 15.24 m (50 ft.).	
14	Power cable to be fitted with a 30 Amp, Single phase, 3 pin (single phase plus ground) Hubbell HBL330P6W ('no substitute') plug, which will connect to a DFO ship-based Hubbell HBL330MI6W mechanically-interlocked single phase disconnect which is currently fitted to program-specific science vessels.	
15	Power cable is to have dedicated	

NO.	MANDATORY CRITERIA	BIDDER RESPONSE
	storage that will protect it from damage during transport. Cable is to remain within the winch footprint when stowed for transport.	
16	IP56 TENV motor for deck wash applications, C-flange mounting for drives.	
17	NEMA 4X/IP56 stainless steel enclosures, controls, heaters, and indicators.	
Performance Criteria:		
18	Designed for continuous Cold Temperature Operation (approximately -20 °C) and for continuous operation at normal summer temperatures (approximately +25 °C).	
19	Soft start control for pay-in and pay-out.	
20	Drum speed infinitely variable on pay-out and pay-in.	
21	Minimum cable speed of 20 m per minute on pay-out and pay-in.	
22	Drum tension maintained on pay-out and pay-in: <ul style="list-style-type: none"> a. Minimum cable pull: 165 kg (364 lbs.) on bare drum, at full speed. b. Minimum cable pull: 125 kg (276 lbs.) on full drum, at full speed. 	
23	Winch to include an adjustable fairlead that will permit a cable angle adjustable from horizontal (0°) to 35-45° above horizontal when the winch is level, without any reduction in performance.	
24	Spooling to be electronically controlled and fully adjustable, in the field, to accommodate a variety of cables. Spooling control is to have a manual jog feature to allow adjustment during operations and to correct spooling error.	
25	Any digital display(s) fitted to the winch or controls is to be readable in bright sunlight.	

NO.	MANDATORY CRITERIA	BIDDER RESPONSE
<u>Main Control Panel and Remote Control Panel Criteria:</u>		
26	Winch is to be fitted with a fixed Main Control Panel and a detachable portable Remote Control Panel.	
27	Winch Main Control Panel is to be positioned to allow safe and easy operation of the winch. The configuration should provide a clear view of the cable fed from the winch, direct view of the panel and the readouts, and immediate access to the emergency stop while operating winch controls.	
28	Main Control Panel configuration: a. Main Control Panel and controls must remain within the winch footprint. b. Switch to select either the local or remote joystick. c. Overload/maximum winch pull indicator. d. Start and stop control. e. A single joystick with brackets to protect from accidental operation or two buttons (haul-in/pay-out) with a rheostat. Both configurations shall provide infinite bi-directional control. f. Meter counter to be included. g. Emergency stop control to be included.	
29	Winch is to be fitted with a detachable portable Remote Control Panel that can operate the winch remotely via an umbilical. The umbilical is to be fitted with a waterproof connector that allows the cable and the portable panel to be removed and stowed. The inline connector and the panel mount connector shall have Original Equipment Manufacturer (OEM) caps that maintain its waterproof rating when the control panel is not connected.	
30	Remote Control Panel configuration: a. Designed to mount to a bench	

NO.	MANDATORY CRITERIA	BIDDER RESPONSE
	<p>top.</p> <p>b. Panel should be of a compact design and light weight</p> <p>c. Include 15.24 (50 ft.) of cable.</p> <p>d. Overload/maximum winch pull indicator.</p> <p>e. Start and stop control.</p> <p>f. A single joystick with infinite bi-directional control.</p> <p>g. Meter counter to be included.</p> <p>h. Emergency stop control to be included.</p> <p>i. Remote control umbilical is to have a dedicated storage case that will protect it from damage during transport.</p>	
<u>Slip Ring Criteria:</u>		
31	<p>Winch is to be fitted with a Moog Focal Model 180/206 Electro-Optical Slip Ring ('no substitute'). This type of slip ring is compatible with other existing DFO science winches and fibre optic instrumentation. The slip ring is to be configured as follows:</p> <ul style="list-style-type: none"> a. 8 electrical passes rated to 1000 VAC, 7A per pass: <ul style="list-style-type: none"> • 2 m pigtails. b. 1 single mode fibre pass, 9/125 µm SMF-28: <ul style="list-style-type: none"> • ST connectors; • 2 m pigtails. c. Replaceable fibre pigtails. d. Non-rotating flange (external to the winch) is to be plastic with 90 degree entry with hose barb for a hose with 2.54 cm (1.0") inner diameter (ID). e. Rotating flange (internal to winch) to have hose barb for a hose with 2.54 cm (1.0") inner diameter (ID). Material and exit 	

NO.	MANDATORY CRITERIA	BIDDER RESPONSE
	angle to be determined by winch manufacturer.	
32	Slip ring is to be mounted in the winch drum. Only the non-rotating element, with associated brackets and guards, and the data cable connection, may extend beyond the end of the drum so as to maintain compact size.	
33	The slip ring is to be protected by a guard that will effectively shield it from damage during transport and operation.	
<u>Operating Software and Operating Manual Criteria:</u>		
34	Vendor to supply one complete set of electronic versions of all operating software (e.g., for a Programmable Logic Controller, or PLC), in an agreed upon media format, to enable reloading of the software (e.g., during repair winch), as required, in the field. The Client has no requirement to edit or modify this software; software is only intended for field servicing and repair of the winch. A documented procedure for installing this software is to be provided.	
35	Vendor is to supply one complete set of communication cables and/or dongles for software installation in the field. It is noted that, in some cases, the costs associated with licencing software can be prohibitive. Vendor may suggest alternatives for review of repair of the PLC during the bid process.	
36	Vendor will supply one hard copy and one electronic copy (in PDF format) of all winch operating manuals, including but not limited to: parts lists; blueprints; schematics; wiring diagrams; operating instructions; recommended spares lists; and/or a detailed maintenance schedule covering the lifecycle of the winch (approximately 20 years).	

NO.	MANDATORY CRITERIA	BIDDER RESPONSE
37	All documentation, software, and manuals are to be provided to the Client at time of delivery. Note that software, documentation, and manuals are to be updated (in all formats) to reflect the final "As Fitted" condition of the winch prior to final delivery.	
<u>Pallet Criteria:</u>		
38	Winch and pallet assembly footprint is to be maintained within 1.2 m x 1.2 m (3.94 ft. x 3.94 ft.).	
39	Continuous welded aluminum frame, Canadian Welding Board (CWB) or equivalent certified welding program, 6061-T6 or similar marine grade weldable aluminum.	
40	Lift points designed for 4:1 safety factor at the four corners. Lift points are to be designed to carry the load of the fully assembled (i.e., loaded winch with pallet attached).	
41	Pallet to have tie-down points that are separate from the lift points, in order to secure the loaded winch to the pallet for transport.	
42	Pallet is to be fitted with fork tubes for forklift transport of the winch to avoid damage to the winch. Tubes cross sections are to be nominally 7.5 cm (3") high x 20 cm (7.5") long (inside measurements) and are to be spaced so that the fork tubes are spaced 1 m (outside measurement) to accommodate DFO's material handling equipment.	
43	Pallet design to allow transport of the winch with a fully loaded drum.	
<u>Completion of Contract Criteria:</u>		
44	Prior to winch acceptance, Vendor must demonstrate and/or provide proof of performance that clearly demonstrates winch capabilities. For example, this may be in the form of a	

NO.	MANDATORY CRITERIA	BIDDER RESPONSE
	performance test, a performance certificate, or performance under-written by an acceptance warranty. If a performance test, this must be made accessible to the Client, and any costs to attend such test is to be borne by the Vendor, or is to be scheduled locally proximal to Dartmouth, Nova Scotia.	
Shipping and Delivery Criteria:		
45	Upon successful completion of testing (at Canada's discretion) and after addressing any deficiencies, with additional performance testing as required, the Vendor is to ship and deliver one mid-water winch and aluminum transport pallet assembly in accordance with the delivery instructions within the contract. Bidders are to confirm that they are able to meet the RDD of 15 Mar 19.	

Please use all the space you need to provide your responses to each requirement

**ENSURE THAT YOU HAVE PROVIDED ALL REQUIRED
INFORMATION AND DOCUMENTATION**

ANNEX D 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)