



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

Public Works and Government Services / Travaux  
publics et services gouvernementaux  
Kingston Procurement  
Des Acquisitions Kingston  
86 Clarence Street, 2nd floor  
Kingston  
Ontario  
K7L 1X3  
Bid Fax: (613) 545-8067

**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**

Address all inquiries to  
Tammy.Weaver@tpsgc-pwgsc.gc.ca

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

Public Works and Government Services / Travaux publics et  
services gouvernementaux  
Kingston Procurement  
Des Acquisitions Kingston  
86 Clarence Street, 2nd floor  
Kingston  
Ontario  
K7L 1X3

<b>Title - Sujet</b> Launch & Recovery System	
<b>Solicitation No. - N° de l'invitation</b> KW405-190384/A	<b>Date</b> 2018-10-11
<b>Client Reference No. - N° de référence du client</b> KW405-190384	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$KIN-508-7592	
<b>File No. - N° de dossier</b> KIN-8-50075 (508)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2018-11-21</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Weaver, Tammy	<b>Buyer Id - Id de l'acheteur</b> kin508
<b>Telephone No. - N° de téléphone</b> (613) 484-1809 ( )	<b>FAX No. - N° de FAX</b> (613) 545-8067
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF THE ENVIRONMENT 867 Lakeshore Road Burlington Ontario L7R4A6 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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## PART 1 - GENERAL INFORMATION

### 1.1 Requirement

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

### 1.2 Debriefings

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

### 1.3 Trade Agreements

"The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), 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.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

### 2.2 Submission of Bids

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

Bid Receiving Public Works and Government Services Canada  
Kingston Procurement  
86 Clarence Street, 2<sup>nd</sup> Floor  
Kingston, Ontario, K7L 1X3

[PWGSC.ORKingstonProcurement-appvisionnementKingston.TPSGC@pwgsc-tpsgc.gc.ca](mailto:PWGSC.ORKingstonProcurement-appvisionnementKingston.TPSGC@pwgsc-tpsgc.gc.ca) **Bids/Offer**  
**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: (613) 545-8067

### 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

### 2.4 Applicable Laws

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

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  
Section IV: Additional Information

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

Section I: Technical Bid (1 hard copy)  
Section II: Financial Bid (1 hard copy)  
Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy on electronic media and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

- If the Bidder is simultaneously providing copies of its bid using multiple acceptable delivery methods, and if there is a discrepancy between the wording of any of these copies and the electronic copy provided through epost Connect service, the wording of the electronic copy provided through epost Connect service will have priority over the wording of the other copies.

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

Canada requests that bidders follow the format instructions described below in the preparation of hard copy of their bid:

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

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573) (<https://www.tbs-sct.gc.ca/pol/doc-eng.aspx?id=32573>). To assist Canada in reaching its objectives, bidders should:

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

### **Section I: Technical Bid**

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

### **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment.

#### **3.1.1 Electronic Payment of Invoices – Bid**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

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

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

#### **3.1.2 Exchange Rate Fluctuation**

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

### **Section III: Certifications**

Bidders must submit the certifications and additional information required under Part 5.

## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### 4.1.1 Technical Evaluation

##### 4.1.1.1 Mandatory Technical Criteria

At bid closing time, the Bidder must submit documentation to demonstrate that their proposed products meet the mandatory requirements at Annex A:

Documentation may include specification sheets or descriptive literature that demonstrates that the system offered meets the requirements at Annex A. If the specification sheets or literature DO NOT address a required specification the Bidder must submit a compliance statement for those items stating how the requirement is being met.

Bidders must provide a cross reference for each Mandatory Requirement by completing the table below:

#### Mandatory Technical Requirements

Item #	Requirement	Reference
2.1	General Specifications	
2.1.0	Bidding companies must have been in business for a minimum of 10 years from the bid closing date and have experience selling LARS systems similar to the system specified here	
2.1.1	LARS must be an A-Frame assembly with a winch mounted on it and a second winch supplied as a spare unit	
2.1.2	Deck mount must allow for easy and quick removal / installation from/to the deck	
2.1.3	LARS deck mount must be no larger than 2.5 meters by 2.5 meters	
2.1.4	A complete set of documentation of the Electrical, Hydraulic, Mechanical systems, bills of materials, certifications, maintenance instruction, operation manuals of the A frame, hydraulic power unit and winch to be supplied in pdf and hard copy formats	
2.1.5	All documentation supplied to be in English	
2.2	A-Frame Specifications:	
2.2.0	A-Frame must have a minimum spacing of 1.5 meters between the uprights	
2.2.1	A-Frame must have a minimum height of 5 meters below the sheave when in a vertical position	
2.2.2	A Frame must have a rigid upright with a hinge at least 2.3 meters above the deck to enable CTD Rosette to clear fixed bulwark on port side of vessel	

2.2.3	A-Frame must have a minimum safe working load of 750 kg when fully luffed in horizontal position	
2.2.4	A-Frame must have a maximum luffing range between +/-60 degree to +/-90 degree from vertical	
2.2.5	A-Frame must have a minimum Ingress Protection of at least IP-56	
2.2.6	A-Frame must include a sheave mounted on top capable of accepting Tyco Rochester A279319 armored cable, which has a minimum bend diameter of 430mm, and must be able to rotate to account for wire angle and have the ability to be locked in position when required	
2.2.7	A-Frame must have a minimum reach of 3 meters when fully luffed	
2.2.8	A-frame must include an electric Hydraulic power unit capable of powering the A-Frame hydraulic system	
2.2.9	A soft start electric hydraulic power unit must operate off of 440 Volts AC 3 phase power	
2.2.10	A-Frame must include minimum two 50 Watt LED flood lights mounted on top for night operation	
2.2.11	A-Frame must include certified lifting points, spreader bar and sling	
2.2.12	A complete set of manufacturers recommended spare parts for the A-Frame must be included	
2.3	Winch Specifications:	
2.3.0	Winches must be able to be mounted on A-Frame base	
2.3.1	Winches must be self-contained and constructed of AISI 304 stainless steel	
2.3.2	Winches must have variable line speed control	
2.3.3	Winches must have a minimum 6Kn pull at bottom layer at 1m/sec	
2.3.4	Winches drum core must have a minimum diameter of 430mm	
2.3.5	Winch drum size must be able to accommodate minimum 500 meters of Tyco/Rochester A279319 armoured cable (Customer Supplied)	
2.3.6	Winches must be prepped for mounting an AGO Environmental Electronics AGO-SR06-MCBH8 slip ring	
2.3.7	Winches must be able to operate off of 440 Volts AC three phase power	
2.3.8	Winches must include fork lift pockets and safety grating	
2.3.9	Winches must include controls mounted in a stainless steel box	
2.3.10	Winches must be no larger than 1.3 m wide by 1.5 meters long by 1.4 meters high	
2.3.11	Winches must include a wired remote control with speed and meter counter display with a minimum of 10 m cable	
2.3.12	Winches must include PC control over Ethernet communication	
2.3.13	Winches must have electronic level wind	

2.3.14	Winches must include a fitted Tarpaulin Cover	
2.3.15	Winches must have integrated lifting points and a lifting sling	
2.3.16	A complete set of manufacturers recommended spares for one winch only	
2.3.17	Winches must meet a minimum water ingress protection of at least IP 56 as they will be used in a marine environment in harsh weather conditions.	
2.3.18	Winches must include some form of standby heating for use in cold weather conditions	
2.3.19	Quantity 2 winches must be provide as in 2.1.1 above	

#### 4.1.2 Financial Evaluation

1. The total evaluated price will be based on the all-inclusive Unit Price.

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

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

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 provide the items detailed under the "Requirement" at Annex "A".

### 6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

#### 6.3.1 General Conditions

[2010A \(2018-06-21\)](#), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 6.4 Term of Contract

#### 6.4.1 Period of the Contract

The period of the Contract is from date of delivery to 2 months inclusive.

#### 6.4.2 Delivery Date

All the deliverables must be received on or before 31 January 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:

Tammy Weaver  
Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
86 Clarence St, 2<sup>nd</sup> Floor  
Kingston, Ontario  
K7L 1X3

Telephone: 613-484-1809  
Facsimile: 613-545-8067  
E-mail address: Tammy.Weaver@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: (To be provided upon contract award)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
E-mail address: \_\_\_\_\_

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

##### 6.5.3 Contractor's Representative

Name: \_\_\_\_\_

Telephone: \_\_\_\_-\_\_\_\_-\_\_\_\_\_  
Facsimile: \_\_\_\_-\_\_\_\_-\_\_\_\_\_

E-mail address: \_\_\_\_\_

## **6.6 Payment**

### **6.6.1 Basis of Payment**

### **6.6.2 Limitation of Expenditure**

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 in Annex B for a cost of \$ \_\_\_\_\_ insert the amount at contract award*). Customs duties are *included* and Applicable Taxes are extra.

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

### **6.6.3 Single Payment**

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):

- 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.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## **6.8 Certifications and Additional Information**

### **6.8.1 Compliance**

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

## 6.9 Applicable Laws

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

## 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;
- (c) the general conditions 2010A (2018-06-21), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated \_\_\_\_\_.

## 6.11 SACC Manual Clauses

B1501C (2018-06-21) Electrical Equipment

## 6.12 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:

- a. Free on Board (Destination) common carrier Environment Canada, Burlington, Ontario for shipments from the United States government; or
- b. Delivered Duty Paid (DDP) Environment Canada, Burlington, Ontario Incoterms 2000 for shipments from a commercial contractor.

## ANNEX "A"

### REQUIREMENT

#### 1.0 **GENERAL:**

##### 1.1 **General Description of Device to be purchased:**

This specification defines a purchase requirement for a specific type of marine lifting device for a launch and recovery system (LARS) to allow for profiling with water quality instrumentation and sampling apparatus for conducting Limnological (freshwater Oceanography) research and monitoring for Environment and Climate Change Canada on the Great Lakes. It will be used onboard a Canadian Coast Guard multiple purpose vessel and must be designed and construct in one contiguous package that is easily installed and removed.

##### 1.2 **Background:**

The mandate of the Research Support Section of Environment and Climate Change Canada, Water Science and Technology (WST), is to provide support to research and monitoring groups within WST for field operations which includes vessels sampling operations in partnership with the Canadian Coast Guard. This includes the deployment and retrieval of equipment for sampling profiles of water quality parameters in the water column and water sampling via a carousal of automatically triggered water sampling bottles all in one contiguous package. This equipment will be launched and retrieved via this proposed LARS specified here.

#### 2.0 **Mandatory Technical Criteria:**

##### 2.1 General Specifications:

- 2.1.0 Bidding companies must have been in business for a minimum of 10 years from the bid closing date and have experience selling LARS systems similar to the system specified here
- 2.1.1 LARS must be an A-Frame assembly with a winch mounted on it and a second winch supplied as a spare unit
- 2.1.2 Deck mount must allow for easy and quick removal / installation from/to the deck
- 2.1.3 LARS deck mount must be no larger than 2.5 meters by 2.5 meters
- 2.1.4 A complete set of documentation of the Electrical, Hydraulic, Mechanical systems, bills of materials, certifications, maintenance instruction, operation manuals of the A frame, hydraulic power unit and winch to be supplied in pdf and hard copy formats
- 2.1.5 All documentation supplied to be in English.

##### 2.2 A-Frame Specifications:

- 2.2.0 A-Frame must have a minimum spacing of 1.5 meters between the uprights
- 2.2.1 A-Frame must have a minimum height of 5 meters below the sheave when in a vertical position
- 2.2.2 A Frame must have a rigid upright with a hinge at least 2.3 meters above the deck to enable CTD Rosette to clear fixed bulwark on port side of vessel
- 2.2.3 A-Frame must have a minimum safe working load of 750 kg when fully luffed in horizontal position
- 2.2.4 A-Frame must have a maximum luffing range between, +/-60 degree to +/-90 degree from vertical

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- 2.2.5 A-Frame must have a minimum Ingress Protection of at least IP-56
  - 2.2.6 A-Frame must include a sheave mounted on top capable of accepting Tyco Rochester A279319 armored cable, which has a minimum bend diameter of 430mm, and must be able to rotate to account for wire angle and have the ability to be locked in position when required
  - 2.2.7 A-Frame must have a minimum reach of 3 meters when fully luffed
  - 2.2.8 A-frame must include an electric Hydraulic power unit capable of powering the A-Frame hydraulic system
  - 2.2.9 A soft start electric hydraulic power unit must operate off of 440 Volts AC 3 phase power
  - 2.2.10 A-Frame must include minimum two 50 Watt LED floodlights mounted on top for night operation
  - 2.2.11 A-Frame must include certified lifting points, spreader bar and lifting sling
  - 2.2.12 A complete set of manufacturers recommended spare parts for the A-Frame must be included
  - 2.3 Winch Specifications:
    - 2.3.0 Winches must be mountable on A-Frame base
    - 2.3.1 Winches must be self-contained and constructed of AISI 304 stainless steel
    - 2.3.2 Winches must have variable line speed control
    - 2.3.3 Winches must have a minimum of 6Kn pull at bottom layer at 1m/sec line speed
    - 2.3.4 Winches drum core must have a minimum diameter of 430mm
    - 2.3.5 Winch drum size must be able to accommodate minimum 500 meters of Tyco/Rochester A279319 armored cable (Customer Supplied)
    - 2.3.6 Winches must be prepped for mounting an AGO Environmental Electronics AGO-SR06-MCBH8 slip ring
    - 2.3.7 Winches must be able to operate at 440 Volts AC three-phase power
    - 2.3.8 Winches must include forklift pockets and safety grating
    - 2.3.9 Winches must include controls mounted in a stainless steel box
    - 2.3.10 Winches must be no larger than 1.3 m wide by 1.5 meters long by 1.4 meters high
    - 2.3.11 Winches must include a wired remote control with speed and meter counter display with a minimum of 10 m cable
    - 2.3.12 Winches must include PC control over Ethernet communication
    - 2.3.13 Winches must have electronic level wind
    - 2.3.14 Winches must include a fitted Tarpaulin Cover
    - 2.3.15 Winches must have integrated lifting points and a lifting sling
    - 2.3.16 A complete set of manufacturers recommended spares for one winch only
    - 2.3.17 Winches must meet a minimum water ingress protection of at least IP 56 as they will be used in a marine environment in harsh weather conditions.
    - 2.3.18 Winches must include some form of standby heating for use in cold weather conditions
    - 2.3.19 Quantity 2 winches must be provide as in 2.1.1 above

## **2 Delivery Location**

All deliverables must be delivered to:  
Environment and Climate Change Canada,  
867 Lakeshore Road,  
Burlington, Ontario  
L7S 1A1

Solicitation No. - N° de l'invitation  
KW405-190384/A  
Client Ref. No. - N° de réf. du client  
KW405-19-0384

Amd. No. - N° de la modif.  
File No. - N° du dossier  
KIN-8-50075

Buyer ID - Id de l'acheteur  
KIN508  
CCC No./N° CCC - FMS No./N° VME

## ANNEX "B"

### Basis of Payment

	Qty	Unit of Issue	Lot Price DDP	Extended Price DDP
LARS system as outlined in Annex "A"	1	LOT	\$_____	\$_____

Solicitation No. - N° de l'invitation  
KW405-190384/A  
Client Ref. No. - N° de réf. du client  
KW405-19-0384

Amd. No. - N° de la modif.  
File No. - N° du dossier  
KIN-8-50075

Buyer ID - Id de l'acheteur  
KIN508  
CCC No./N° CCC - FMS No./N° VME

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## **ANNEX “C”**

### **ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ ( ) VISA Acquisition Card;
- ☐ ( ) MasterCard Acquisition Card;
- ☐ ( ) Direct Deposit (Domestic and International);
- ☐ ( ) Electronic Data Interchange (EDI);
- ☐ ( ) Wire Transfer (International Only);
- ☐ ( ) Large Value Transfer System (LVTS) (Over \$25M)