



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Réception des soumissions - TPSGC / Bid Receiving  
- PWGSC

Voir dans le document/  
See herein

NA

Quebec

NA

**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**

<b>Title - Sujet</b> Inflatable Work Boat	
<b>Solicitation No. - N° de l'invitation</b> 5P212-200302/A	<b>Date</b> 2020-12-10
<b>Client Reference No. - N° de référence du client</b> 5P212-200302	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$QCV-021-18053	
<b>File No. - N° de dossier</b> QCV-0-43133 (021)	<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> Eastern Standard Time EST <b>on - le 2021-01-11</b> Heure Normale du l'Est HNE	
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Fournier, Annie	<b>Buyer Id - Id de l'acheteur</b> qcv021
<b>Telephone No. - N° de téléphone</b> (418) 933-4419 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Parcs Marin du Saguenay-Saint-Laurent ST LAURENT 454, rue du Bateau-Passeur TADOUSSAC Québec G0T2A0 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

TPSGC/PWGSC  
1550 Avenue d'Estimauville  
Québec  
Québec  
G1J 0C7

<b>Delivery Required - Livraison exigée</b> Voir Doc.	<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

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QCV-0-43133

Buyer ID - Id de l'acheteur  
qcv021  
CCC No./N° CCC - FMS No./N° VME

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Requirement**

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

### **1.2 Debriefings**

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

### **1.3 epost Connect service**

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

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) 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 (2020-05-28) 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 on page 1 of the bid solicitation:

#### **PWGSC Québec Region Bid Receiving Unit**

Only bids submitted using epost Connect service will be accepted. The Bidder must send an email requesting to open an epost Connect conversation to the following address:

[TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca)

**Note: Bids will not be accepted if emailed directly to this email address.** This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions 2003, or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

Due to the nature of the solicitation, bids submitted by facsimile or hardcopy will not be accepted.

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) 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 Quebec, Canada.

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

## 2.5 Bid Challenge and Recourse Mechanisms

(a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.

(b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "**Bid Challenge and Recourse Mechanisms**" contains information on potential complaint bodies such as:

- Office of the Procurement Ombudsman (OPO)
- Canadian International Trade Tribunal (CITT)

(c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Submission of Bids**

The Bidder must submit its bid electronically in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

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

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

Due to the nature of the solicitation, bids submitted by facsimile or hardcopy will not be accepted.

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

#### **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. The total amount of Applicable Taxes must be shown separately.

#### **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**

Bidders should provide documentation with their bids demonstrating how they meet the technical requirements detailed in Annex "A".

Bids that do not meet all requirements, without exception, will be declared non-responsive and rejected.

#### **4.1.2 Financial Evaluation**

Bidders must submit firm prices, customs duties and excise taxes included, and Applicable Taxes excluded.

Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.

Bidders must provide prices Delivered Duty Paid (DDP), Parcs Canada, Parc marin du Saguenay - Saint-Laurent, 182 rue de l'Église, Tadoussac (Québec) Canada G0T 2A0, Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on a DDP basis.

### **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 website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

### **5.2 Certifications Precedent to Contract Award and Additional Information**

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

#### **5.2.1 Integrity Provisions - Required Documentation**

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the Ineligibility and Suspension Policy (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), 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 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**

There is no security requirement applicable to the Contract.

### **6.2 Requirement**

The Contractor must supply, one (1) inflatable work boat not more than two years old (manufacture date) with a rigid fibreglass hull, 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>) issued by Public Works and Government Services Canada.

#### **6.3.1 General Conditions**

2010A (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### **6.3.2 Supplemental General Conditions**

4009 (2013-06-27), Professional Services - 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 award to the end of the warrantee period.

#### **6.4.2 Delivery Period**

All the deliverables must be received within ten (10) weeks after contract award.

### **6.5 Authorities**

#### **6.5.1 Contracting Authority - PWGSC**

The Contracting Authority for the Contract is:

Name: Annie Fournier  
Title: Supply specialist  
Public Works and Government Services Canada  
Telephone: 418-933-4419  
Fax: 418-648-2209  
E-mail: [Alain.Roy.que@tpsgc-pwgsc.gc.ca](mailto:Alain.Roy.que@tpsgc-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 Technical Authority**

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The Technical Authority for the Contract is: (will be completed at contract award)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
E-mail Address: \_\_\_\_\_

The Technical 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 Technical Authority, however the Technical 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 Representatives

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_  
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 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.

### 6.6.2 SACC Manual Clauses

[C6000C](#) (2017-08-17), Limitation of Price

[H1000C](#) (2008-05-12), Single Payment

## 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:
  - The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - 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 Quebec, Canada.

### 6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the supplemental general conditions [4009](#) (2013-06-27), Professional Services - Medium Complexity;
- (c) the general conditions [2010A](#) (2020-05-28), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment; and
- (f) the Contractor's bid dated \_\_\_\_\_ (will be completed at contract award).

### 6.11 SACC Manual Clauses

[G1005C](#) (2016-01-28), Insurance – No Specific Requirement

### 6.12 Shipping Instructions - Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered DDP Delivered Duty Paid: Parcs Canada, Parc marin du Saguenay – Saint-Laurent, 182 rue de l'Église, Tadoussac (Québec) Canada G0T 2A0, Incoterms 2010 for shipments from commercial contractor.

### 6.13 Dispute Resolution

The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.

The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.

If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.

Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

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## ANNEX A – REQUIREMENT

### 1.0 OVERVIEW

Parks Canada purchases, manages and operates small boats in support of its programs and missions. Parks Canada would like to add an inflatable work boat to its fleet. The main purpose of this boat will be coastal navigation (maximum 6 nautical miles from shore) in the St. Lawrence River and the Saguenay Fjord for scientific research projects, as well as law enforcement and auxiliary search and rescue operations. The boat will be operated out of Tadoussac within the boundaries of the Marine Park.

### 1.1 REQUIREMENTS

- 1.1.1 The Contractor shall provide one (1) inflatable work boat not more than two years old (manufacture date) with a rigid fibreglass hull. It must be a production model certified in Canada and comply with the current version of the Transport Canada Marine Safety (TCMS) technical publication TP 1332 - Construction Standards for Small Vessels (hereinafter TCMS TP 1332).
- 1.1.2 The boat will be propelled and must be compatible with one (1) single four-stroke F150 Yamaha outboard motor (LF150XB 64PX) installed on the left side. The Contractor shall supply and deliver this motor to Parks Canada and install it. The motor shall be delivered after the Contract is awarded. The motor shall be delivered to the Saguenay–St. Lawrence Marine Park, Tadoussac, QC, Canada G0T 2A0.
- 1.1.3 The Contractor shall acquire, supply and install controls, gauges and dials that are compatible with the motor.
- 1.1.4 The Contractor shall provide one (1) new galvanized two-wheeled trailer that is compatible with the boat. It must be equipped with a winch, wheel brakes, LED lights and ratchet straps. The trailer must comply with the standards for the province of Quebec. Parks Canada will register it after delivery.

### 2.0 DESIGN AND CONSTRUCTION REQUIREMENTS

The hull, deck and console must be made of fibreglass. The T-top frame shall be made of marine-grade aluminum or stainless steel.

### 2.1 ERGONOMIC DESIGN

- 2.1.1 Hazardous operating conditions must be avoided by providing guards for all electrical, mechanical and thermal hazards, and by providing guards or covers for all controls that could be activated by accidental contact with staff.
- 2.1.2 The fibreglass floor shall have a non-slip pattern.
- 2.1.3 The vessel shall accommodate staff between 5' and 6'4" in height while wearing cold weather clothing and equipment in accordance with ASTM F1166-07 - Standard Practice for Human Engineering Design for Marine Systems, Equipment, and Facilities.
- 2.1.4 A bench with a storage compartment in front of the console must be securely fastened to the floor.

## **VIBRATIONS**

### **2.2 MATERIALS**

- 2.2.1 All materials must be corrosion resistant and suitable for use in a saltwater environment, as detailed in the operational requirements. All materials normally exposed to sunlight must be resistant to ultraviolet light. Galvanized materials are unacceptable, with the exception of the trailer.
- 2.2.2 Different metals: Direct contact between electrolytically dissimilar metals is not permitted. Electrolytic corrosion must be prevented by insulating dissimilar materials with gaskets, washers, sleeves or rings made of suitable insulating material.
- 2.2.3 The T-top frame shall be made of aluminum alloys suitable for commercial marine use in saltwater, such as 5083/86 or 5052 or 6063-T54 alloys, or stainless steel.
- 2.2.4 Stainless steel: Unless otherwise specified, 316L or 316 stainless steel must be used for all stainless-steel applications. All welded components shall be made of 316L stainless steel.
- 2.2.5 Fasteners and fittings must be made of stainless steel. Bolts used in all fittings shall be made of 316 stainless steel.
- 2.2.6 Where flexible connections are required for steering and fuel systems, suitable hoses with permanent crimp fittings that are detachable and reusable shall be used.

### **2.3 FASTENERS**

- 2.3.1 All fasteners must be made of corrosion-resistant materials.
- 2.3.2 Self-locking fasteners must be used to prevent them from loosening under vibration.
- 2.3.3 Cadmium-plated parts and fasteners, including washers, shall not be used.
- 2.3.4 Copper-containing alloys may not be directly attached to aluminum, with the exception of adhesive tapes.
- 2.3.5 Fasteners must not be screwed directly into the fibreglass. If required and upon Parks Canada approval, use marine-grade aluminum or stainless-steel washers or backing plates. Bolts passing through the fibreglass sandwich panels must be flush mounted with solid fittings to prevent water from penetrating the fibreglass core.
- 2.3.6 Before nuts become inaccessible after assembly, they must be secured or anchored to allow for reassembly and prevent slip. Unless otherwise specified, self-locking nuts must be installed to prevent fasteners from loosening due to shock and vibration.
- 2.3.7 Fasteners in traffic areas on the bridge must be flush mounted to eliminate tripping and snagging hazards.

### **2.4 STANDARDS**

- 2.4.1 The supplied boat must be built in accordance with TCMS TP 1332 and American Boat & Yacht Council (ABYC) requirements.
- 2.4.2 CSA - C22.2 No. 183.2-M1983 (R1999) - Standards for DC Electrical Installations on Boats and ABYC E-series electrical standards.
- 2.4.3 Electrical systems on the boat must comply with section 8 of TCMS TP 1332.

### **3.0 OPERATIONAL REQUIREMENTS:**

The requirements are as follows.

#### **3.1 CRUISING SPEED**

The Contractor shall provide Parks Canada with the expected speed in knots under normal load conditions with no wind or waves during tests.

### **3.2 GROUNDING**

The boat must be able to run aground on soft ground (sand, earth or clay) at a maximum speed of 3 knots without damaging the hull. The hull must include grounding straps.

### **3.3 LAUNCHING, RETRIEVAL AND TRANSPORTATION**

The boat must be easy to transport by road on a boat trailer and able to be launched and retrieved by the trailer.

### **3.4 MAINTENANCE**

The boat must be designed and built to be easy to maintain and repair for a long service life and be easily repairable by reputable commercial facilities, suppliers and manufacturers.

## **4.0 PHYSICAL CHARACTERISTICS**

### **4.1 BOAT INFORMATION**

- 4.1.1 Total length: between 6.0 and 7.5 m (excluding the motor)
- 4.1.2 Total width: maximum 3 m when inflated
- 4.1.3 Depth: minimum 0.76 m
- 4.1.4 Maximum propeller draught: 1 m (under normal load conditions)
- 4.1.5 Hull shape: V-shaped
- 4.1.6 Boat style: rigid-hull inflatable boat with fibreglass hull
- 4.1.7 Propulsion: Yamaha four-stroke F150 outboard motor provided by Parks Canada
- 4.1.8 Normal load conditions:
  - 4.1.8.1 Four crew members with equipment: 440 kg
  - 4.1.8.2 Fuel: minimum 250 L in one or two fuel tanks
  - 4.1.8.3 Equipment and supplies: 200 kg
- 4.1.9 Overall height on trailer for transport: must not exceed 2.9 m (including top)

### **5.0 BOAT CONFIGURATION**

#### **5.1 GENERAL CONFIGURATION**

Rigid-hull inflatable boat with a console and T-top. The hull colour must be light grey, the deck must be light grey, the inflatable tube-set must be dark grey, and the T-top must be white. These colours must be submitted to Parks Canada for approval.

#### **5.2 HULL**

- 5.2.1 Boat with simple V-shaped hull.
- 5.2.2 The shape of the hull must not impede the flow of water to the propulsion machinery and must protect staff on board from spray and waves.

#### **5.3 TUBES**

- 5.3.1 Tubes must be made of Hypalon, neoprene, polyurethane or an approved equivalent. Tubes must not be made of polyvinyl chloride (PVC).
- 5.3.2 Surfaces used for boarding must be covered with non-slip protective strips.
- 5.3.3 A lacing cuff and safety ropes must be installed on both sides of the wing.

## 5.4 DECK EQUIPMENT

The deck scuppers shall be sized to allow for adequate drainage of the exposed deck surfaces in accordance with TCMS TP 1332.

## 5.5 CONSOLE AND TOP

The centre console shall be fitted with a windshield and a T-top to protect the crew and equipment from the elements.

## 6.0 EQUIPMENT – GENERAL

The console must include an instrument panel.

### 6.1 CONSOLE

The steering console shall be centrally located and shall be compatible with the motor power.

6.1.1 The steering console shall be equipped with appropriate indicators tailored to propulsion system components. At least the following indicators must be installed on the console:

- a) Fuel gauge
- b) One tachometer per motor
- c) One voltmeter per motor
- d) One temperature gauge per motor
- e) One oil pressure gauge per motor
- f) One tilt/trim indicator for each motor
- g) Electrical panel
- h) Battery selector switch

6.1.2 The throttle controls must be positioned on the starboard side of the console.

6.1.3 The console must be large enough to accommodate a VHF radio, Parks Canada radio, control horn and multi-purpose display. The top of the console should be tilted 30 to 45 degrees for pilot comfort and to accommodate the steering wheel, motor controls, switchboard, lighting system and indicators (see section 11.0).

6.1.4 The following alarms must be installed: low-pressure alarm, engine overheat alarm (per motor), high-bilge water level alarm and bilge fuel vapour alarm, if necessary.

6.1.5 Two (2) 12V cigarette lighter electrical sockets, one on each side at the top of the console.

### 6.2 STEERING SYSTEMS

Steering systems shall consist of remote hydraulic steering with a self-contained oil tank and replaceable seals on the cylinders, with a maximum of four (4) rotations between the hard-to-port and hard-to-starboard positions. Specific propulsion systems may have their own steering requirements that must be met.

6.2.1 All hydraulic steering hoses must be installed to prevent physical damage, pinching or friction wear.

6.2.2 Hydraulic hoses must be of sufficient length and diameter to prevent pulsation. They must also be suitable for installation in a saltwater environment and have stainless steel fittings.

6.2.3 The connection between the steering wheel and the console shall be strong enough to eliminate forward, backward and lateral movement of the steering wheel mechanism and steering shaft.

6.2.4 The steering wheel must be made of stainless steel and covered with rubber or plastic. The steering wheel must be rigid enough not to bend during operations in rough waters and shall be padded to provide a comfortable non-slip surface for the operator to grasp.

### **6.3 OPERATOR'S SEAT**

The operator's seat shall consist of one (1) reclining pedestal seat (at least 1 m wide).

### **6.4 WINDSHIELD**

A translucent Lexan (or equivalent) approved marine-grade windshield on the console must be able to protect two people sitting behind the console. A protective film shall prevent wear and scratches caused by the wipers.

### **6.5 WINDSHIELD WIPERS**

A windshield wiper/washer system must be installed on the windshield. The windshield wipers must cover at least 60% of the windshield surface.

### **6.6 HANDLES**

At a minimum, handles must be installed at the following locations:

6.6.1 Two (2) on the instrument panel within range of the operator and navigator positions.

6.6.2 Two (2) behind the operator's seat.

### **6.7 MOORING CLEATS**

6.7.1 Two (2) mooring cleats must be installed on the transom of the boat.

6.7.2 Cleats must be made of aluminum or stainless steel and be equipped with a backing plate for added strength.

### **6.8 TOWING CLEATS**

Towing cleats must be fitted at the bow (minimum towing capacity of 680 kg) and stern (minimum towing capacity of 1,134 kg) of the boat.

6.8.1 A cruciform towing cleat with motor protection devices must be installed at the stern and protrude about 0.3 m above the motor.

6.8.2 A cruciform towing cleat with an anchor storage compartment must be installed at the bow.

### **6.9 STORAGE**

6.9.1 Storage compartments for small items of equipment shall be provided under the seats, under the console, on deck under the upper part of the bulwark so as to maximize storage space as much as possible.

6.9.2 Larger storage compartments must be lockable.

6.9.3 Trays and clamps for storing oars, boat hooks, etc., should be installed along the interior sides of the boat under the top portion of the bulwarks.

## **6.10 CABLE PIPES**

Cable pipes must be installed to support the enclosed electrical cables. They shall be equipped with easily removable covers and be large enough to accommodate additional wiring required for future installations. The Contractor shall provide cable pipes and cable troughs for the equipment supplied by Parks Canada described in this document.

6.10.1 Cables shall be bundled as much possible. All cable bundles must be channelled through protective pipes. When this is not possible, cables and conductors should be secured with cord grips, such as straps or mounts, spaced at least 0.45 m apart for cables run horizontally and 0.35 m apart for cables run vertically.

6.10.2 Cables and conductors that pass through sealed joints, decks, bulkheads or other exposed surfaces shall be installed so as to ensure that the structure remains watertight. Cable entry points in sealed enclosures shall be fitted with marine-grade cable glands of appropriate size.

6.10.3 Cables and conductors passing through structures not equipped with marine-grade cable glands must be protected from frictional wear from abrasion-resistant cable glands.

6.10.4 Whenever possible, avoid running cables through spaces filled with foam. If necessary, run them through PVC piping. Piping shall be installed so as to prevent water from accumulating.

## **7.0 HULL**

All components and structures (hull, deck, seats, etc.) shall be strong enough to withstand the horizontal and vertical impact loads associated with the operational requirements of the craft under normal load conditions.

7.1 A bow ring must be installed at the front of the boat for towing purposes (with sufficient capacity for the weight of the boat in addition to equipment).

7.2 Two (2) tow eyes must be mounted on the transom to secure the boat to the trailer.

## **8.0 SAFETY AND EMERGENCY EQUIPMENT**

The following items must be supplied with the appropriate dunnage and fasteners. All fittings supplied by the Contractor shall be made of durable, corrosion-resistant 316 stainless steel.

All items shall be readily accessible (the foot pump and the repair kits shall be stowed in a stowage locker).

- a) Two (2) sets of oars with storage mounts
- b) One (1) 10ABC marine fire extinguisher with mounting bracket installed on board
- c) One (1) detachable ladder
- d) One (1) radar reflector
- e) One (1) man-overboard life ring with mounting bracket
- f) One (1) boat hook with mounting bracket

## **9.0 SYSTEMS - GENERAL**

### **9.1 PROPULSION SYSTEM**

The outboard motor (four-stroke F150 Yamaha outboard motor) will be provided by Parks Canada. The Contractor shall install the motor and provide and install the motor controls. The Contractor shall install, secure and operate the motor in accordance with the manufacturer's instructions. The Contractor shall supply and install accessories and equipment approved by the motor manufacturer. Do not use equipment or accessories with the motor or perform tests on the motor that could in any way void the manufacturer's warranties. The propeller shall be contrarotating (counterclockwise).

## 9.2 PROPELLER

- a) Supply and install one (1) stainless steel propeller for the four-stroke F150 Yamaha outboard motor (LF150XB 64PX) on the left side. The propeller must be the proper size (13 3/4" X19-ML)

## 9.3 CONTROLS

- 9.3.1 The installation of the propulsion system control system shall include motor controls located on the starboard side of the helm unit. The controls shall comply with the motor manufacturer's recommendations and shall not interfere with any other controls.
- 9.3.2 The power unit shall include a long automatic shut-off function for the motor mounted near the ignition switch.

## 9.4 INSTALLATION CHECK

The installation of the motor, drive units, controls, lubrication and fuel systems, pressure gauges and battery connections must be checked by a supplier-authorized technician. The motor must be started by an authorized technician, who will write a brief report and submit a copy of it upon delivery.

## 9.5 MOTOR BREAK-IN

The Contractor must follow the manufacturer's break-in procedures. Motor breaking-in can be carried out at the same time as sea trials.

## 9.6 PROTECTION FOR CONTROLS

All control cables, motor electrical wiring and hydraulic steering hoses must be installed in ultraviolet resistant plastic tubing (insulating sleeves) or equivalent. The tubing must be installed in such a way that no cables are immersed in water.

## 9.7 FUEL SYSTEM

The complete fuel system must be supplied, installed, labelled and tested in accordance with section 7 of TCMS TP 1332 and in accordance with ABYC specifications.

- a) The fuel system must include one (1) Racor filter/separator per motor with clear bowl, suitable for fuelling the outboard gasoline motor.
- b) All fuel valves must be easily accessible and labelled in accordance with TCMS TP 1332.
- c) The fuel fill cap shall be located in a ventilated, watertight and accessible compartment, designed to recover fuel in the event of overflow or backflow, and to prevent it from entering the boat, in accordance with TCMS TP 1332.
- d) The fuel tank must be equipped with an anti-siphon valve at each intake.
- e) Fuel tank vent pipes must be equipped with a backflow valve.

## 9.8 FUEL TANK

- a) The boat shall be equipped with one (1) or two (2) fuel tanks with baffle plates, if necessary.

- b) The total capacity must be at least two hundred and fifty (250) litres.
- c) Each fuel tank must undergo hydrostatic or pneumatic tests at 3.0 lbs/in<sup>2</sup> and be labelled in accordance with TCMS TP 1332.
- d) Each fuel tank shall be equipped with a fuel gauge and indicator for the operator located on the console instrument panel.
- e) Fuel tanks must be equipped with anti-siphon valves installed at each intake if the flow rate meets the manufacturer's requirements.
- f) If the boat is equipped with two (2) fuel tanks, they must be equipped with interconnecting valves so that the motor can draw fuel from either tank. The valves must be clearly marked.

## **10.0 ELECTRICAL SYSTEM**

The electrical system, components and installation must comply with CSA - C22.2 No. 183.2-M1983 (R1999) - DC Electrical Installations on Boats, and with TCMS TP 1332 and/or the ABYC E-series standards referenced in this document. All electrical equipment and materials must be installed in accordance with the manufacturer's specifications. Electrical equipment that must be watertight (e.g. the switchboard on the console) will be considered acceptable if it meets IP66 standards. It must include a circuit-breaker panel with at least ten (10) circuits. The Contractor shall ensure that the circuit-breaker panel can be enlarged by 10% or accommodate at least two (2) spare circuit breakers (depending on which option offers greater capacity).

A 12V DC distribution system must be provided to supply power to the motor ignition system and service loads of the boat. The system must include the following:

- a) Navigation lights
- b) Interior lighting
- c) Navigation equipment
- d) Instruments
- e) Bilge pumps
- f) Electronic systems
- g) Communication systems

All electrical equipment must be installed to operate without causing interference with other equipment or the magnetic compass.

All electrical equipment must be easily accessible for maintenance.

Two (2) 12V marine-grade electrical outlets must be installed on or near the operator console.

## **10.1 BATTERIES, SWITCHES AND CHARGERS**

- 10.1.1 The boat shall be equipped with a dual (2) M30MF deep-cycle battery system with a selector switch and connected in accordance with the technical specifications of the motor manufacturer.
- 10.1.2 Batteries should be marine-grade absorbed glass mat or maintenance-free gel mat batteries to eliminate leakage, with a minimum of 800 amps of deep-cycle starting power.
- 10.1.3 Battery switches must be flush mounted to prevent accidental snagging or change-over switching.
- 10.1.4 Battery compartments shall be watertight and equipped with a suitable way to vent gases, if necessary.

## **10.2 LIGHTS**

- a) The console backlighting control shall be fitted with a marine-grade dimmer switch to reduce the brightness of the motor and other indicators, independent of compass lighting.

- b) A light must also be installed on the T-top.
- c) The boat shall be equipped with a blue marine strobe light (law enforcement) with 360° visibility without obstructing the boat operator or navigation lights.
- d) Navigation lights must comply with Canadian Standards Association (CSA) Collision Regulations.
- e) Navigation lights must be permanently attached and watertight.
- f) Navigation light bulbs must be designed to withstand vibration and moisture and must be protected from damage when next to another vessel or dock.
- g) Navigation lights shall be mounted so as not to obstruct the operator's vision.
- h) A non-white light source must be connected to the 12V DC electrical system on its own circuit breaker. The mast and all-around anchor light must be located on the top. Two (2) instrument panel switches must be provided and labelled as follows: Nav 1 (masthead and anchor) and Nav 2 (sidelights).

### 10.3 PUMP AND DRAINAGE

- a) A bilge pump with a minimum capacity of 1,000 gallons per hour (gph) must be installed in each watertight section as well as a manual diaphragm bilge pump. The bilge pump shall be located so as to be capable of drawing water from the lowest point of the hull. Piping should direct the bilge pump discharge directly overboard. The electric bilge pump shall have an automatic activation switch for when there is water in the bilge. The electric bilge pump control switch must be located on the operator's console with "on," "off" and "automatic" settings to control the operation of the pump. An indicator light must be installed on the console and must light up when the bilge pump is running. Bilge pumps must be wired directly to the battery so that they are always ready, in accordance with the requirements TCMS TP 1332.
- b) The rapid-drainage freeing ports must be located at the stern of the boat.
- c) Hull drainage: A non-corrosive threaded plug must be provided at the lowest point to drain the hull when the boat is out of the water.

### 10.4 MAGNETIC COMPASS

The Contractor shall supply and install a magnetic compass, mounted in the operator console. A non-white (red or green) light source must be connected to the 12V DC electrical system and equipped with its own waterproof marine-grade dimmer switch. The compass must include an adjustable declination feature.

### 11.0 ELECTRONIC AND NAVIGATION EQUIPMENT

The Contractor shall provide space and connectivity for the following equipment. Note that these components will be supplied and installed by Parks Canada. All antennas must be top-mounted and equipped with retractable connections for ground transportation. All cable entries must pass through watertight cable glands. The following list of equipment will be provided and installed by Parks Canada:

- a) A Motorola radio and its antenna
- b) Speaker compatible with Motorola radio, with external power supply
- c) Raymarine RD418 HD (20.5" x 9.7") digital radome scanner compatible with Axiom pro (358 x 223 x 65 mm) (14.1" x 9.17" x 2.56") multifunction display, 1KW RVX chirp sonar and RV bronze thru-hull transducer; wide range GPS antenna
- d) Raymarine Ray53 VHF radio (6.13" x 3.5") with Digital Selective Calling (DSC). The VHF radio must be connected to the GPS system using a NMEA connection for DSC or equivalent.
- e) External powered speaker for the Raymarine A80542 radio
- f) Shakespeare 5396-AIS/VHF Galaxy antenna
- g) Code 3 V-CON 3672L4 siren system, which will also be used as a foghorn
- h) Axiom Pro multifunction display (358 x 223 x 65 mm) (14.1" x 9.17" x 2.56").

### 12.0 NON-SLIP SURFACE

Non-slip surface finish must be used on all weather-exposed decking and the upper portions of the bulwarks.

### **13.0 TESTS AND TRIALS**

The Contractor must inspect and test at least the following to ensure compliance with the requirements of the Contract and proper operation (proper operation means that the equipment can be started, used, connected together and can be shown to function normally, if applicable). All anomalies must be corrected before delivery. The required inspections and tests are minimums and are not intended to supplant the monitoring, examinations, inspections or tests normally used by the Contractor to ensure the quality of the boat. Inspections and tests shall cover the following in particular:

- a) Weight
- b) Construction quality
- c) Propulsion motor, including start-up
- d) Propulsion controls
- e) Steering systems
- f) Fuel system
- g) Electrical system
- h) Electronics

#### **13.1 SEA TRIALS - GENERAL**

Sea trials must be carried out in Tadoussac as soon as the weather permits and the boat is available.

Sea trials must be carried out by the Contractor to demonstrate that the vessel and its equipment comply with the requirements set out in the Contract. Unless otherwise specified, all expenses incidental to trials, including fuel, shall be borne by the Contractor. Contractor's staff must use the boat during sea trials.

**Steering gear:** Tests must be conducted on the steering gear to demonstrate the effectiveness of the steering system under normal operating conditions.

At the end of the sea trials, the boat must be thoroughly cleaned and inspected. Outboard motor cooling systems should be flushed with fresh water. The Contractor shall repair any damage to the boat or its equipment resulting from the sea trials to the satisfaction of Parks Canada.

For test purposes, normal load conditions are considered to be the basic boat, all normal equipment, a full tank of fuel and any other load or item specified in the boat information (see section 4.1). Any excess fuel will be invoiced to the buyer.

The Contractor shall record and document all stability calculations and test results (in accordance with technical TCMS TP 1332) and make them available in accordance with section 14.2 - Technical publications.

### **14.0 DOCUMENTATION**

All documentation shall be provided in both official languages (English and French).

#### **14.1 IDENTIFICATION PLATE**

Identification plates must be affixed in accordance with TCMS TP 1332.

#### **14.2 TECHNICAL PUBLICATIONS**

The Contractor shall provide, upon delivery of the boat, complete sets of technical publications for the equipment provided.

### **14.3 ADDITIONAL DELIVERABLE DOCUMENTS**

The following additional documents must be provided with each set of manuals delivered:

- a) A tonnage measurement certificate in accordance with TP 13430 (<http://www.tc.gc.ca/eng/marinesafety/svcp-gt-3948.htm>)
- b) Proof of enrolment in the Small Vessel Compliance Program (<http://www.tc.gc.ca/eng/marinesafety/svcp-menu-3633.htm>)

### **15.0 SHIPPING AND DELIVERY**

Prior to shipping, the boat must be cleaned and protected in accordance with this section.

- a. Prior to shipment, the boat must be secured to the trailer (basis of payment, sections 2 and 3), cleaned and equipped with appropriate protection.
- b. The boat must be delivered to the following address at the contractor's expense: Saguenay–St. Lawrence Marine Park, 454 Bateau-Passeur Street, Tadoussac, QC, Canada G0T 2A0, by March 15, 2021. Delivery must include the boat and trailer, the motor and all its electronic equipment, ready to operate and launch.

### **16.0 TRAINING**

During the sea trials at Tadoussac, the Contractor shall provide training in French on how to use all equipment and components of the new boat. Training must last two (2) hours for about ten (10) people.

### **17.0 GOVERNMENT-SUPPLIED MATERIALS**

One (1) Yamaha four-stroke F150 outboard motor (LF150XB 64PX) installed on the left side (without gauges, dials, controls or steering cables).

All equipment indicated in section 11 - Electronic and navigation equipment..

Solicitation No. - N° de l'invitation  
 5P212-200302/A  
 Client Ref. No. - N° de réf. du client  
 5P212-20-0302

Amd. No. - N° de la modif.  
 File No. - N° du dossier  
 QCV-0-43133

Buyer ID - Id de l'acheteur  
 qcv021  
 CCC No./N° CCC - FMS No./N° VME

**ANNEX B – BASIS OF PAYMENT**

**BASIS OF PAYMENT**

Please indicate the brand and model of the product offered.

Item #	Description	Qty	UD	Unit Price	Firm Price
1	<b>Inflatable work boat</b> In accordance with the specifications described in Annex A:  Brand: _____  Model: _____	1	Lot	\$	\$
2	<b>DDP (Tadoussac, Quebec), including customs duties and handling.</b>	1	Lot	\$	\$
3	<b>Training</b>	1	Lot	\$	\$
<b>TOTAL =</b>					\$
<b>Note: Price not including Applicable Sales Taxes.</b>					