

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Réception des soumissions - TPSGC / Bid  
Receiving - PWGSC  
601 - 1550 Avenue d'Estimauville  
Québec  
Québec  
G1J 0C7

**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> Radiogoniomètre MF-HF	
<b>Solicitation No. - N° de l'invitation</b> F3020-120432/A	<b>Date</b> 2012-12-03
<b>Client Reference No. - N° de référence du client</b> F3020-12-0432	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$QCW-001-15057	
<b>File No. - N° de dossier</b> QCW-2-35494 (001)	<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 2013-01-04</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Heure Normale du l'Est HNE
<b>F.O.B. - F.A.B. Specified Herein - Précisé dans les présentes</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Boudrias, Marie-M.	<b>Buyer Id - Id de l'acheteur</b> qcw001
<b>Telephone No. - N° de téléphone</b> (418) 649-2806 ( )	<b>FAX No. - N° de FAX</b> (418) 648-2209
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> MINISTERE DES PECHES ET DES OCEANS SYS ELECT.&INFORMATQUES 101 BLVD CHAMPLAIN QUEBEC Québec G1K7Y7 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  
601 - 1550 Avenue d'Estimauville  
Québec  
Québec  
G1J 0C7

<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/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

## TABLE OF CONTENTS

### PART 1 - GENERAL INFORMATION

1. Security Requirement
2. Requirement
3. Debriefings

### PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions
2. Submission of Bids
3. Enquiries - Bid Solicitation
4. Applicable Laws

### PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

### PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures
2. Basis of Selection

### PART 5 - CERTIFICATIONS

1. Mandatory Certifications Required Precedent to Contract Award
2. Additional Certifications Precedent to Contract Award

### PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement
2. Requirement
3. Standard Clauses and Conditions
4. Term of Contract
5. Authorities
6. Payment
7. Invoicing Instructions
8. Certifications
9. Applicable Laws
10. Priority of Documents
11. Hardware
12. SACC Manual Clauses

#### List of Annexes:

- |         |                  |
|---------|------------------|
| Annex A | Requirement      |
| Annex B | Basis of Payment |

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## PART 1 - GENERAL INFORMATION

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Requirement

The Department of Fisheries and Oceans Canada (DFO) want to purchase a MF - HF Radio Direction Finder to install aboard an ice-breaker. The technical specifications of the Radio Direction Finder are described at Annex A - Requirement. The requirement includes the following deliverables:

- (a) A MF - HF Radio Direction Finder that meets all the technicals specifications described at section 2 of Annex A - Requirement.
- (b) A display unit control
- (c) A DF antenna
- (d) The necessary Interface to connect the equipment
- (e) Interface for gyro NMEA 0183
- (f) Power supply range from 90 to 130 Vac at 60 Hz
- (g) At least 150 feet of cable to connect the antenna with the receiver
- (h) A technical manual

### 3. Debriefings

After contract award, 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** of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

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## PART 2 - BIDDER INSTRUCTIONS

### 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 (2012-11-19) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### 1.1 SACC Manual Clauses

B1000T (2007-11-30), Condition of Material

### 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.

Bids transmitted by facsimile to PWGSC will be accepted (418-648-2209).

#### 2.1 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least five (5) days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

### 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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

Solicitation No. - N° de l'invitation

F3020-120432/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

qcw001

Client Ref. No. - N° de réf. du client

F3020-12-0432

File No. - N° du dossier

QCW-2-35494

CCC No./N° CCC - FMS No/ N° VME

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#### **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.

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.

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## PART 3 - BID PREPARATION INSTRUCTIONS

### 1. Bid Preparation Instructions

Canada requests that bidders provide their 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 and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

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

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

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

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

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

#### Section I: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements.

**Bidders should also provide with their bid the technical sheets** of the proposed deliverables. These technical sheet should be **standard existing documents**. The technical sheets should not be written documents specially drafted for this Request for Proposal.

#### Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment (see annex B). The total amount of Goods and Services Tax (GST) or Harmonized Sales Tax (HST) must be shown separately, if applicable.

Solicitation No. - N° de l'invitation

F3020-120432/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

qcw001

Client Ref. No. - N° de réf. du client

F3020-12-0432

File No. - N° du dossier

QCW-2-35494

CCC No./N° CCC - FMS No/ N° VME

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## **1.1 Exchange Rate Fluctuation**

C3011T (2010-01-11), Exchange Rate Fluctuation

### **Section III: Certifications**

Bidders must submit the certifications required under Part 5.

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## PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

### 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.

#### 1.1 Financial Evaluation

- (a) Bidders must submit firm prices, Canadian customs duties and excise taxes included, and Goods and Services Tax (GST) or Harmonized Sales Tax (HST) excluded.
- (b) 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 will be applied as a conversion factor to the bids submitted in foreign currency.
- (c) Bidders must provide prices DDP (Incoterm 2000) at 101, boulevard Champlain Quebec (Quebec), G1K 7Y7. Bids will be assessed on a DDP (Incoterm 2000) basis.
- (d) The total evaluation price will be the **total price** indicated at Annex B - Basis of Payment.

### 2. Basis of Selection

A bid must comply with all requirements of the bid solicitation to be declared responsive. The responsive bid with the lowest evaluated price will be recommended for award of a contract.

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## PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and related documentation to be awarded a contract. Canada will declare a bid non-responsive if the required certifications and related documentation are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications, to provide the related documentation or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

### 1. Mandatory Certifications Required Precedent to Contract Award

#### 1.1 Code of Conduct and Certifications - Related documentation

- 1.1.1 By submitting a bid, the Bidder certifies, for himself and his affiliates, to be in compliance with the Code of Conduct and Certifications clause of the Standard instructions. The related documentation hereinafter mentioned will help Canada in confirming that the certifications are true. By submitting a bid, the Bidder certifies that it is aware, and that its affiliates are aware, that Canada may request additional information, certifications, consent forms and other evidentiary elements proving identity or eligibility. Canada may also verify the information provided by the Bidder, including the information relating to the acts or convictions specified herein, through independent research, use of any government resources or by contacting third parties. Canada will declare non-responsive any bid in respect of which the information requested is missing or inaccurate, or in respect of which the information contained in the certifications is found to be untrue, in any respect, by Canada. The Bidder and any of the Bidder's affiliates, will also be required to remain free and clear of any acts or convictions specified herein during the period of any contract arising from this bid solicitation.

Bidders who are incorporated, including those bidding as a joint venture, must provide with their bid or promptly thereafter a complete list of names of all individuals who are currently directors of the Bidder. Bidders bidding as sole proprietorship, including those bidding as a joint venture, must provide the name of the owner with their bid or promptly thereafter. Bidders bidding as societies, firms, partnerships or associations of persons do not need to provide lists of names. If the required names have not been received by the time the evaluation of bids is completed, Canada will inform the Bidder of a time frame within which to provide the information. Failure to comply will render the bid non-responsive. Providing the required names is a mandatory requirement for contract award.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form- PWGSC-TPSGC 229) (<http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/formulaires-forms-eng.html>) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

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## 2. Additional Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid, but may be submitted afterwards. If any of these required certifications is not completed and submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

### 2.1 Federal Contractors Program - Certification

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- a.( ) is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- b.( ) is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- c.( ) is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- d.( ) has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: \_\_\_\_\_ .

Further information on the FCP is available on the HRSDC Web site.

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## PART 6 - RESULTING CONTRACT CLAUSES

### 1. Security Requirement

There is no security requirement associated with the requirement.

### 2. Requirement

The Contractor must provide the deliverables detailed under the "Requirement" at Annex A.

### 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.

#### 3.1 General Conditions

2010A (2012-11-19), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

##### 3.1.1 Warranty - Contractor responsible for all costs

**Section 09** entitled "**Warranty**" of General Conditions - Goods (Medium Complexity) **2010A** is amended by deleting **subsection 2** in its entirety and replacing it with the following:

2. The Contractor must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good. The Contractor must also pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location. In such cases, the Contractor will be responsible for all Costs (including travel and living expenses) incurred in so doing, Canada will not reimburse these Costs.

All other provisions of the warranty section remain in effect.

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**3.1.2 2030 27 (2008-05-12), Intellectual Property Infringement and Royalties, apply to and form part of the Contract.**

1. The Contractor represents and warrants that, to the best of its knowledge, neither it nor Canada will infringe any third party's intellectual property rights in performing or using the Work, and that Canada will have no obligation to pay royalties of any kind to anyone in connection with the Work.
2. If anyone makes a claim against Canada or the Contractor concerning intellectual property infringement or royalties related to the Work, that Party agrees to notify the other Party in writing immediately. If anyone brings a claim against Canada, according to Department of Justice Act, R.S. 1985, c. J-2, the Attorney General of Canada must have the regulation and conduct of all litigation for or against Canada, but the Attorney General may request that the Contractor defend Canada against the claim. In either case, the Contractor agrees to participate fully in the defence and any settlement negotiations and to pay all costs, damages and legal costs incurred or payable as a result of the claim, including the amount of any settlement. Both Parties agree not to settle any claim unless the other Party first approves the settlement in writing.
3. The Contractor has no obligation regarding claims that were only made because:
  - a. Canada modified the Work or part of the Work without the Contractor's consent or used the Work or part of the Work without following a requirement of the Contract; or
  - b. Canada used the Work or part of the Work with a product that the Contractor did not supply under the Contract (unless that use is described in the Contract or the manufacturer's specifications); or
  - c. the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
  - d. the Contractor used a specific item of equipment or software that it obtained because of specific instructions from the Contracting Authority; however, this exception only applies if the Contractor has included the following language in its own contract with the supplier of that equipment or software: "[Supplier name] acknowledges that the purchased items will be used by the Government of Canada. If a third party claims that equipment or software supplied under this contract infringes any intellectual property right, [supplier name], if requested to do so by either [Contractor name] or Canada, will defend both [Contractor name] and Canada against that claim at its own expense and will pay all costs, damages and legal fees payable as a result of that infringement." Obtaining this protection from the supplier is the Contractor's responsibility and, if the Contractor does not do so, it will be responsible to Canada for the claim.

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4. If anyone claims that, as a result of the Work, the Contractor or Canada is infringing its intellectual property rights, the Contractor must immediately do one of the following:
- a. take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
  - b. modify or replace the Work to avoid intellectual property infringement, while ensuring that the Work continues to meet all the requirements of the Contract; or
  - c. take back the Work and refund any part of the Contract Price that Canada has already paid.

If the Contractor determines that none of these alternatives can reasonably be achieved, or if the Contractor fails to take any of these steps within a reasonable amount of time, Canada may choose either to require the Contractor to do (c), or to take whatever steps are necessary to acquire the rights to use the allegedly infringing part(s) of the Work itself, in which case the Contractor must reimburse Canada for all the costs it incurs to do so.

### **3.2 Supplemental General Conditions**

4001 (2010-08-16) Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

## **4. Term of Contract**

### **4.1 Delivery Date**

All the deliverables must be received on or before March 28, 2013.

## **5. Authorities**

### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Marie-Michèle Boudrias  
Supply agent  
Public Works and Government Services Canada  
1550, D'Estimauville Avenue  
Quebec city, Quebec  
G1J 0C7

Telephone: 418-649-2806  
Facsimile: 418-648-2209  
E-mail address: marie-michele.boudrias@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

Solicitation No. - N° de l'invitation

F3020-120432/A

Amd. No. - N° de la modif.

File No. - N° du dossier

QCW-2-35494

Buyer ID - Id de l'acheteur

qcw001

CCC No./N° CCC - FMS No/ N° VME

F3020-12-0432

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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.

**5.2 Technical Authority** (to be completed by Canada at the contract award)

The technical Authority for the Contract is:

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

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Telephone : \_\_\_\_\_

Facsimile: \_\_\_\_\_

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.

**5.3 Contractor's Representative** (to be completed by the contractor)

Organization : \_\_\_\_\_

Address : \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

Telephone : \_\_\_\_\_

Facsimile : \_\_\_\_\_

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

**5.4 Contact at Customer Department** (to be completed by Canada at the contract award)

For all information related to invoicing and/or payments you may communicate with:

Customer Department : \_\_\_\_\_  
 Name : \_\_\_\_\_  
 Telephone : \_\_\_\_\_  
 Facsimile : \_\_\_\_\_  
 Email : \_\_\_\_\_

**6. Payment****6.1 Basis of Payment - Firm Price**

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 - Basis of Payment**. 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.

**6.2 Single Payment**

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

**6.3 SACC Manual Clauses**

C2000C (2007-11-30), Taxes - Foreign-based Contractor

**6.4 Shipping Instructions - Delivery at Destination**

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

- (a) Delivered Duty Paid (DDP) at 101, boulevard Champlain, Quebec city (Quebec), G1K 7Y7 Incoterms 2000 for shipments from a commercial contractor.

**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.

## 8. Certifications

### 8.1 Compliance

Compliance with the certifications and related documentation provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the term of the Contract. If the Contractor does not comply with any certification, provide the related documentation or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

## 9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in \_\_\_\_\_. *(Insert the name of the province or territory as specified by the Bidder in its bid, if applicable)*

## 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 4001 (2010-08-16) Hardware Purchase;
- (c) 2030 27 (2008-05-12), Intellectual Property Infringement and Royalties;
- (d) the general conditions 2010A (2012-11-19), General Conditions - Goods (Medium Complexity);
- (e) Annex A, Requirement;
- (f) Annex B, Basis of Payment;
- (g) the Contractor's bid dated \_\_\_\_\_ *(insert date of bid)*

**11. Hardware**

With respect to the provisions of Supplemental General Conditions 4001:

Part III of 4001 applies to the Contract (Additional Conditions: Purchase)	Yes
Part IV of 4001 applies to the Contract (Additional Conditions: Lease)	No
Part V of 4001 applies to the Contract (Additional Conditions: Maintenance)	No
Delivery Location	101, boulevard Champlain, Quebec city (Quebec), G1K 7Y7
Installation Site	Aboard an ice-breaker
Contractor must deliver Hardware Documentation	Yes (see section 3.1 of annex A - Requirement)
Contractor must update Hardware Documentation throughout Contract Period	Yes
Hardware Documentation must include maintenance documentation	Yes
Language of Hardware Documentation	See section 3.1 of Annex A -Requirement

**12. SACC Manual Clauses**

G1005C (2008-05-12), Insurance  
 B1501C (2006-06-16), Electrical Equipment  
 D0018C (2007-11-30), Delivery and Unloading

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## ANNEX A

### REQUIREMENT

#### 1. List of acronyms

DFO – Department of Fisheries and Oceans Canada

VAC – Voltage Alternatif Courant

#### 2. Specifications of the Radio Direction Finder

The Department of Fisheries and Oceans Canada (DFO) want to purchase a MF – HF Radio Direction Finder to install aboard an ice-breaker. The Radio Direction Finder must comply with all the following specifications:

- (a) Minimum frequency range that must be covered: 200 kHz à 29,999.9 kHz .
- (b) Wave form: A1A, A2A, H2A, A3E, H3E, J3E (USB/LSB)
- (c) Possibility to memorized frequency (minimum 50 frequencies)
- (d) Power supply range 90 to 130 Vac at 60 Hz.
- (e) Possibility to connect one gyrocompass with a standard NMEA 0183 signal to obtain the real heading of the search signal.
- (f) Sensitivity
  - (i) 200kHz à 3MHz band: 50 $\mu$ V/m field intensity at the antenna for 10dB sinad.
  - (ii) 3MHz à 30MHz band: 30 $\mu$ V/m field intensity at the antenna for 10dB sinad.
- (g) Accuracy
  - (i) 200kHz à 3MHz band:  $\pm 1^\circ$  or smaller at 1mV/m field intensity at the antenna.
  - (ii) 3MHz à 30MHz band:  $\pm 2^\circ$  or smaller at 0.3mV/m field intensity at the antenna.
- (h) Scattering
  - (i) 200kHz à 3MHz band:  $\pm 6^\circ$  or smaller at 50 $\mu$ V/m field intensity at the antenna.
  - (ii) 3MHz à 30MHz band:  $\pm 6^\circ$  or smaller at 30 $\mu$ V/m field intensity at the antenna.
- (i) The system must resist at the environmental specifications below:
  - (i) Temperature of operation:
    - A- Receiver: 10°C to +40°C.
    - B- Antenna: -20°C to +40°C.
  - (ii) Humidity: 95% (relative humidity)
  - (iii) Vibration/shock test:
    - A- Passed test in 3 directions, for 30 minutes each, for vibration amplitude of 3mm (0 – 500 rpm) and of 1mm (500 -1800 rpm).
    - B- Passed shock test by dropping it to hard wood floor 3 times from a height of 5cm.

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### 3. Deliverables

The contractor must provide all the following deliverables:

- (a) A MF – HF Radio Direction Finder that meets all the technical specifications described at section 2 of Annex A - Requirement.
- (b) A display unit control
- (c) A DF antenna
- (d) The necessary Interface to connect the equipment
- (e) An Interface for gyro NMEA 0183
- (f) A power supply range from 90 to 130 Vac at 60 Hz
- (g) At least 150 feet of cable to connect the antenna with the receiver

#### 3.1 Technical Manual

In addition to the deliverables described at section 3. (a) to (g), the contractor must provide one copy (hard or Soft (in Word or PDF format)) of the MF-HF Radio Direction Finder technical manual. The technical manual should be in French. Canada will also accept an English version of the document only if the contractor provides Canada with the right to translate the technical manual.

The technical manual must contain all the following information: complete instruction on how to perform the installation, the integration, the configuration and the maintenance of the equipment. The technical manual must also clearly indicate how to operate the equipment. With the technical manual, the user must be able to perform the tasks listed in this paragraph without any help from the contractor.

**ANNEX B****BASIS OF PAYMENT**

(To be completed by the bidder)

<b>ITEMS</b>	<b>DESCRIPTION</b>	<b>QTY</b>	<b>FIRM ALL INCLUSIVE, PRICE (GST /HST EXTRA)</b>	<b>CURRENCY (ex.: CAD, USD, EURO, etc.)</b>
1	Firm all-inclusive price for the following deliverables : (a) MF - HF Radio Direction Finder (b) A display unit control (c) A DF antenna (d) The necessary Interface to connect the equipment (e) An Interface for gyro NMEA 0183 (f) A power supply range from 90 to 130 Vac at 60 Hz (g) At least 150 feet of cable to connect the antenna with the receiver (h) The technical manual  All the deliverables must be in accordance with Annex A - Requirement.	1	_____	_____
2	Delivery fees	1	_____	_____
<b>TOTAL PRICE :</b>  (Firm all inclusive price for item 1 + Firm all inclusive price for item 2)			_____	_____