

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

**Bid Receiving  
PWGSC  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5  
Bid Fax: (905) 615-2095**

**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> Directional Wave Buoys	
<b>Solicitation No. - N° de l'invitation</b> K3D33-131191/A	<b>Date</b> 2014-01-02
<b>Client Reference No. - N° de référence du client</b> K3D33-131191	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$TOR-015-6479	
<b>File No. - N° de dossier</b> TOR-3-36152 (015)	<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 2014-02-12</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 checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Abela, Aaron	<b>Buyer Id - Id de l'acheteur</b> tor015
<b>Telephone No. - N° de téléphone</b> (905) 615-2061 ( )	<b>FAX No. - N° de FAX</b> (905) 615-2060
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF THE ENVIRONMENT 4905 Dufferin St Downsview Ontario M3H5T4 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**

Public Works and Government Services Canada  
Ontario Region  
33 City Centre Drive  
Suite 480  
Mississauga  
Ontario  
L5B 2N5

<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>

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## **PART 1 - GENERAL INFORMATION**

### **1. Introduction**

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

Part 1 General Information: provides a general description of the requirement;

Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;

Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;

Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;

Part 5 Certifications: includes the certifications to be provided;

Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Requirement, the Basis of Payment, and any other annexes.

### **2. Summary**

Environment Canada, Meteorological Services of Canada, located at Downsview, Ontario requires the supply, manufacture and delivery of Directional Wave Buoys. The buoys are required to support the operational marine observing requirements of the MSC including the enhancement of public safety and informed decision making by issuing weather warnings; forecasting weather, ice and wave conditions; supporting critical weather-sensitive government services; monitoring atmospheric conditions and predicting the state of the climate; monitoring water levels, and providing scientific research for service improvement and policy advice. The Buoys will also contribute to special projects or research initiatives where in-situ observations of waves are required.

There is a firm requirement of one (1) Directional Wave Bouy to be delivered by March 31, 2014, with the option to purchase up to nine (9) additional Directional Wave Buoys at any time from the Date of Contract Award to March 31, 2017.

It is intended to issue one contract as a result of this solicitation.

Bidders must submit a list of names, or other related information as need, pursuant to section 01 of Standard Instructions 2003.

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), and the Agreement on Internal Trade (AIT).

### **3. 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 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 (2013-06-01) 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: sixty (60) days

Insert: ninety (90) days

### **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.

### **3. Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than ten (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 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.

### **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.

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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 (3 hard copies)  
Section II: Financial Bid (1 hard copy)  
Section III: Certifications (1 hard 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>). 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 demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

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

1.1 Bidders must submit their financial bid in accordance with the Annex "B". The total amount of Applicable Taxes must be shown separately.

#### **Section III: Certifications**

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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 Technical Evaluation**

#### **1.1.1. Mandatory Technical Criteria**

See Annex "D" Evaluation Criteria

#### **1.1.2 Point Rated Technical Criteria**

See Annex "D" Evaluation Criteria

### **1.2 Financial Evaluation**

#### **1.2.1 Mandatory Financial Criteria**

- (a) Bidders must complete and submit with its bid, Annex "B" - Basis of Payment, in Canadian funds, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

#### **1.2.2** The price used in the evaluation will be the Total Evaluated Price, which is calculated as follows:

- (a) Total Evaluated Price is the sum of the extended prices calculated by multiplying the quantity required by the proposed firm unit prices or the proposed firm annual price.

#### **1.2.3** SACC Manual Clause A0220T (2013-04-25), Evaluation of Price

## **2. Basis of Selection - Highest Combined Rating of technical Merit and Price**

- 1. To be declared responsive, a bid must:

- A. comply with all the requirements of the bid solicitation; and
- B. meet all mandatory criteria.

The rating is performed on a scale of 15 points.

- 2. Bids not meeting (a) or (b) will be declared non-responsive.

- 3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 60% for the technical merit and 40% for the price.

- 4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 60%.

5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 40%.

6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

**Basis of Selection - Highest Combined Rating Technical Merit (60%) and Price (40%)**

		<b>Bidder 1</b>	<b>Bidder 2</b>	<b>Bidder 3</b>
<b>Overall Technical Score</b>		115/135	89/135	92/135
<b>Bid Evaluated Price</b>		55,000	50,000	45,000
<b>Calculations</b>	<b>Technical Merit Score</b>	115/135 x 60 = 51.11	89/135 x 60 = 39.56	92/135 x 60 = 40.89
	<b>Pricing Score</b>	45/55x 40 = 32.73	45/50 x 40 = 36.00	45/45 x 40 = 40.00
<b>Combined Rating</b>		83.84	75.56	80.89
<b>Overall Rating</b>		1st	3rd	2nd

**PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications and documentation to be awarded a contract.

The certifications provided by bidders to Canada are subject to verification by Canada at all times. 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 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 with this request will also render the bid non-responsive or will constitute a default under the Contract.

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

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

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions

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2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

## **1.2 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 ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website

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.

## **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 Rate or Price Certification**

C0001T (2007-05-25) Price Certification - Foreign Suppliers

### **2.2 OEM Certification**

2.2.1 Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit the OEM's certification regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). No Contract will be awarded to a Bidder who is not the OEM of the hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

2.2.2 If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.

2.2.3 For the purposes of this bid solicitation, OEM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

### **2.3 Software Publisher Certification and Software Publisher Authorization**

2.3.1 If the Bidder is the Software Publisher for any of the proprietary software component(s) it bids, Canada requires that the Bidder confirm in writing that it is the Software Publisher. Bidders are requested to use the Software Publisher Certification Form included with the bid solicitation. Although all the contents of the Software Publisher Certification Form are required, using the form itself to provide this information is not mandatory. For bidders who use an alternate form, it is in Canada's sole discretion to

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determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

2.3.2 Any Bidder that is not the Software Publisher of all the proprietary software products or components proposed in its bid is required to submit proof of the Software Publisher's authorization, which must be signed by the Software Publisher (not the Bidder). No Contract will be awarded to a Bidder who is not the Software Publisher of all of the proprietary software it proposes to supply to Canada, unless proof of this authorization has been provided to Canada. If the proprietary software proposed by the Bidder originates with multiple Software Publishers, authorization is required from each Software Publisher. Bidders are requested to use the Software Publisher Authorization Form included with the bid solicitation. Although all the contents of the Software Publisher Authorization Form are required, using the form itself to provide this information is not mandatory. For Bidders/Software Publishers who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

2.3.3 In this bid solicitation, "Software Publisher" means the owner of the copyright in any software included in the bid, who has the right to license (and authorize others to license/sub-license) its software products.

## **PART 6 - RESULTING CONTRACT CLAUSES**

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

### **1. Requirement**

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

#### **1.1 Optional Goods and/or Services**

The Contractor grants to Canada the irrevocable option to acquire the goods described at Annex "B" of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

### **2. 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.

#### **2.1 General Conditions**

2030 (2013-06-27), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

#### **2.2 Supplemental General Conditions**

4001 (2013-01-28) Supplemental General Conditions - Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.

4003 (2010-08-16) Supplemental General Conditions - Licensed Software, apply to and form part of the Contract.

### **3. Security Requirement**

There is no security requirement applicable to this Contract.

### **4. Term of Contract**

#### **4.1 Period of the Contract**

The period of the Contract is from Date of Contract Award to March 31, 2017.

#### **4.2 Delivery Date**

Delivery for one firm unit must be received on or before March 31, 2014.

Delivery for optional quantities must be made within \_\_\_(to be inserted at contract award)\_\_\_ weeks from the date the options are exercised.

### **5. Authorities**

#### **5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: Aaron Abela  
Title: Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Ontario Region  
Address: 33 City Centre Drive Suite 480C  
Mississauga, Ontario L5B 2N5  
Telephone: (905) 615-2061  
Facsimile: (905) 615-2060  
E-mail address: Aaron.Abela@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.

#### **5.2 Project Authority**

(TBA at time of contract award)

Name: \_\_\_\_\_  
Environment Canada  
Address: 4905 Dufferin Street

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Toronto, Ontario

M3H 5T4

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.

### 5.3 Contractor's Representative

(TBA at time of contract award)

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

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

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

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

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

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

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

## 6. Payment

### 6.1 Basis of Payment - Firm Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid firm prices as specified in Annex "B" for a cost of \$\_\_\_\_\_ (amount to be inserted upon 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.

### 6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

### 6.3 Inspection and Acceptance

The Project Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

### 6.4 Multiple Payments

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

## 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.

## 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 Ontario.

## 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 (2013-01-28) Supplemental General Conditions - Hardware Purchase, Lease and Maintenance;
- (c) the supplemental general conditions 4003 (2010-08-16) Supplemental General Conditions - Licensed Software;
- (d) the general conditions 2030 (2013-06-27), General Conditions - Higher Complexity - Goods;
- (e) Annex A, Requirement;
- (f) Annex B, Basis of Payment;
- (g) the Contractor's bid dated \_\_\_\_\_.

## 11. Insurance

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by

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the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

**12. SACC Manual Clause**

SACC Manual Clause B1501C (2006-06-16) Electrical Equipment.

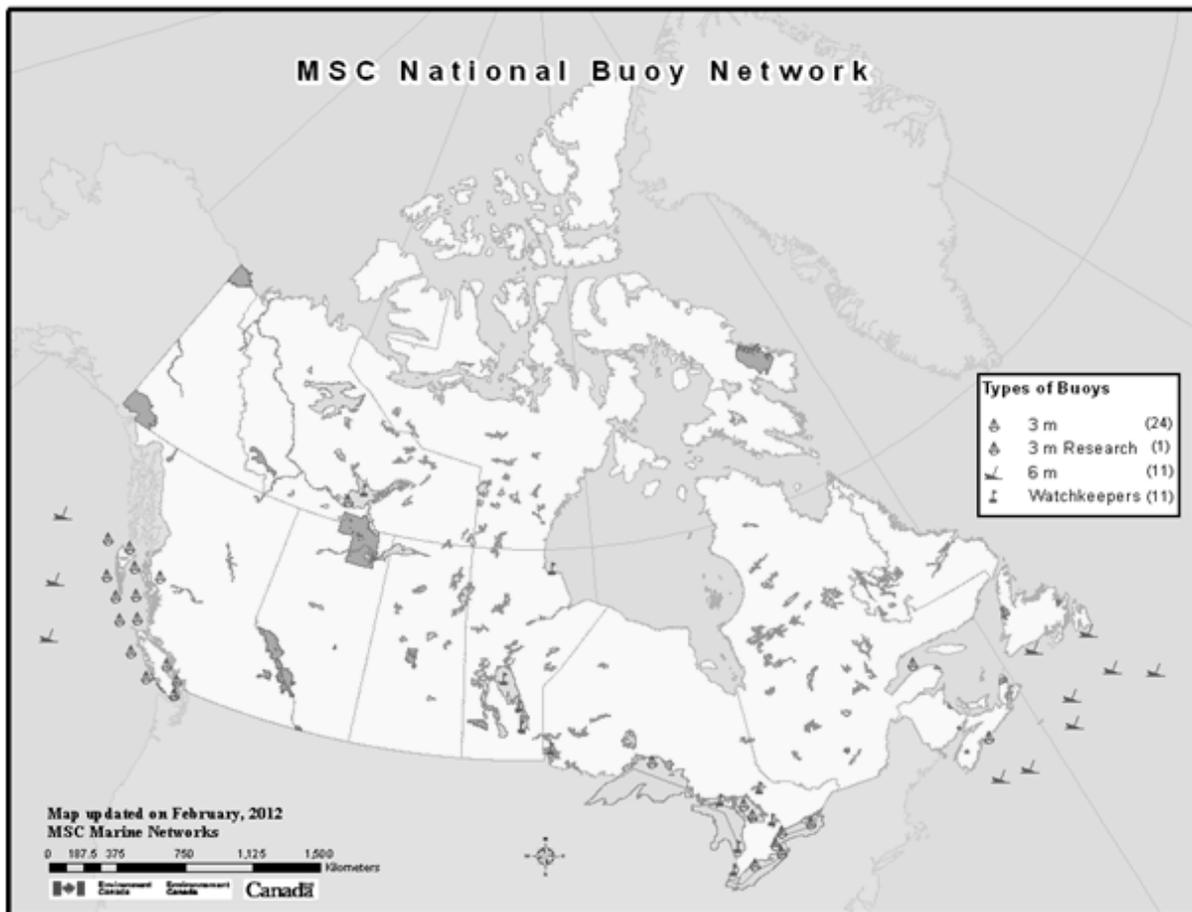
## ANNEX A REQUIREMENT

### 1. Scope

The Meteorological Service of Canada (MSC) of Environment Canada (EC) is seeking to procure directional wave buoys for deployment in Ocean and Lake Environments.

Within EC, and as part of the Meteorological Service of Canada, the National Marine Networks group manages and administers a network of operational weather buoys along with ship-board automated weather stations for the Government of Canada. The network consists of approximately 50 moored weather buoys strategically located on Canadian east and west coasts, some as many as 700 KM off shore. In addition to these permanent moorings, seasonal buoys are deployed on the Great Lakes and other interior waterways. The ship-board automatic weather stations (AVOS) are presently installed on 55 vessels, with plans in place to expand the network to 75 vessels. Approximately half of the current AVOS systems are installed on Canadian Coast Guard vessels, including ice breakers that traverse Arctic waters.

**Image 1 - Map of current MSC moored buoy network.**



## 2.0 General Requirements

### 2.1 Documentation

The Contractor must provide at the time of delivery, documentation in English that will include all necessary circuit diagrams, details of calibration checks and acceptable limits. The user software must document the underlying algorithms used in signal, data and product processing. The output data formats must be documented for decoding for external processing.

### 2.2 Delivery and On-Site Acceptance

Environment Canada Technical Authority or delegate must inspect the deliverable before acceptance either at the Contractor's site or Environment Canada delivery destination, where it will undergo a full acceptance test carried out by the contractor under the supervision of the EC team. It must also include a demonstration of the transportability and setup procedures. Acceptance of the systems will only occur once all specifications have been met. The warranty period will commence upon final acceptance by Environment Canada.

### 2.3 Delivery Against the Contract

All deliverables must be in accordance with best commercial standards. The Contractor must deliver production Directional Wave Buoys in satisfaction of the contract requirements to:

Environment Canada  
Surface Weather, Climate and Marine Networks  
4905 Dufferin Street  
Toronto, Ontario Canada  
M3H 5T4  
Contact : TBD

## Technical Specifications

Deliverable: The Directional Wave Buoy must meet or exceed each of the specifications outlined below:

### 1. Resolution and Accuracy

#### 1.1 Heave

- 1.1.1 Range: +/-20m
- 1.1.2 Resolution: 0.01m
- 1.1.3 Accuracy: 2% or better
- 1.1.4 Period: 1.6 to 30 seconds

#### 1.2 Direction

- 1.2.1 Range: 0° - 360°
- 1.2.2 Resolution: 1.4° (1 binary degree)
- 1.2.3 Accuracy: 3°
- 1.2.4 Period: 1.6 to 30seconds (free floating)

#### 1.3 Water Temperature

- 1.3.1 Range: -5°C to +46°C
- 1.3.2 Resolution: 0.1°C

1.3.3 Accuracy: <0.5°C

## **2. Sensor and Processing**

### **2.1 Type**

2.1.1 Onboard wave sensor must be comprised of a solid state 3D motion sensor and data processor with 6 degrees of freedom. The motion sensor must provide measurements of wave height (heave and pitch) as well as wave direction.

### **2.2 Sampling**

2.2.1 8 to 16 channels, 14 bit at a range of 3.8Hz to 4hz

### **2.3 Processing**

2.3.1 32 bits microprocessor system

## **3. Standard Features**

### **3.1 Integrated Datalogger**

3.1.1 Compact Flash Module: Datalogger capacity Minimum of 512 MB

### **3.2 LED Flasher**

3.2.1 International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) compliant LED flasher; colour yellow with ODAS Buoy standard flash code (i.e. 5 flashes every 20 seconds)

### **3.3 GPS Position**

3.3.1 12 channel, fix every 30 min, precision <10m

### **3.4 Satellite Communication**

3.4.1 Iridium, or INMARSAT, or other commercial satellite systems

### **3.5 Mobile (wireless communications)**

3.5.1 Mobile communications: GSM or CDMA (Suitable for buoy operation in North America)

### **3.6 Radar Reflectors**

3.6.1 Buoy must be equipped with radar deflectors to increase buoy visibility.

## **4. General Features**

### **4.1 Hull Material**

4.1.1 Marine Grade Stainless steel (example: SS316, or AISI316, or Cunifer10)

### **4.2 Hull Weight**

4.2.1 Must weigh between 200 to 225 Kg

### **4.3 Hull Painting**

4.3.1 Marine Grade Powder Coating Process; Color: Yellow

### **4.4 Hull Diameter**

4.4.1 0.8m to 1m (excluding fender if included)

### **4.5 Batteries**

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4.5.1 Buoy must operate unattended for 18 months or longer with a system of onboard batteries

**4.6 Temperature Range**

4.6.1 Operating Temp Range -5°C - +35°C

Storage Temp Range: -5°C - +40°C

**4.7 Buoy Operation**

4.7.1 Buoy must operate unattended for a minimum of 18 months.

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

The firm prices are all-inclusive prices in Canadian dollars, the Goods and Services Tax or the Harmonized Sales Tax excluded. FOB destination, Packaging, Transportation costs and the Canadian customs duties and excise taxes included.

**1.0 FIRM REQUIREMENT**

Item	Description	Quantity	Firm Unit Price
1	<p>For the supply and delivery of Directional Wave Buoy as per specifications outlined in Annex "A", Requirement, and any other items or services required to complete the buoy as detailed in Annex A.</p> <p>Bidder should specify make and model being offered.</p> <p>Manufacturer: _____</p> <p>Make and Model: _____</p>	1 complete unit	\$

**2.0 OPTIONAL GOODS & SERVICES- Date of Contract Award to March 31, 2017.**

Canada may purchase any or all of the optional goods and services at any time during the period of the contract. The optional quantities may be exercised in various quantities, from time to time in whole or in part.

Canada reserves the right to advance or delay the purchase of the optional quantities.

**Option to Purchase additional Directional Wave Buoys****2.1 Option Year 1 - April 1, 2014 to March 31, 2015**

Item	Description	Optional Quantities	Firm Unit Price
1	<p>For the supply and delivery of Directional Wave Buoy as per specifications outlined in Annex "A", Requirement, and any other items or services required to complete the buoy as detailed in Annex A.</p> <p>Bidder should specify make and model being offered.</p> <p>Manufacturer: _____</p> <p>Make and Model: _____</p>	Up to 3 complete units	\$

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**2.2 Option to Purchase 1-Year Extended Warranty - For each Directional Wave Buoy purchased.**

Item	Description	Optional Quantities	Annual Price
1	1 Year Warranty Extension	Up to 4 one-year warranty extensions.	\$_____ for each 1-year warranty extension.

**2.3 Option to Purchase Replacement Battery Pack - For each Directional Wave Buoy purchased.**

Item	Description	Optional Quantities	Firm Unit Price
1	1 Replacement Batter Pack	Up to 4 replacement battery packs.	\$_____ for each replacement battery pack.

**3.0 Option Year 2 - April 1, 2015 to March 31, 2016**

Item	Description	Optional Quantities	Firm Unit Price
1	For the supply and delivery of Directional Wave Buoy as per specifications outlined in Annex "A", Requirement, and any other items or services required to complete the buoy as detailed in Annex A.  Bidder should specify make and model being offered.  Manufacturer: _____  Make and Model: _____	Up to 3 complete units	\$

**3.1 Option to Purchase 1-Year Extended Warranty - For each Directional Wave Buoy purchased.**

Item	Description	Optional Quantities	Annual Price
1	1 Year Warranty Extension	Up to 3 one-year warranty extensions.	\$_____ for each 1-year warranty extension.

### 3.2 Option to Purchase Replacement Battery Pack - For each Directional Wave Buoy purchased.

Item	Description	Optional Quantities	Firm Unit Price
1	1 Replacement Batter Pack	Up to 3 replacement battery packs.	\$_____ for each replacement battery pack.

### 4.0 Option Year 3 - April 1, 2016 to March 31, 2017

Item	Description	Optional Quantities	Firm Unit Price
1	For the supply and delivery of Directional Wave Buoy as per specifications outlined in Annex "A", Requirement, and any other items or services required to complete the buoy as detailed in Annex A.  Bidder should specify make and model being offered.  Manufacturer: _____  Make and Model: _____	Up to 3 complete units	\$

### 4.1 Option to Purchase 1-Year Extended Warranty - For each Directional Wave Buoy purchased.

Item	Description	Optional Quantities	Annual Price
1	1 Year Warranty Extension	Up to 3 one-year warranty extensions.	\$_____ for each 1-year warranty extension.

### 4.2 Option to Purchase Replacement Battery Pack - For each Directional Wave Buoy purchased.

Item	Description	Optional Quantities	Firm Unit Price
1	1 Replacement Batter Pack	Up to 3 replacement battery packs.	\$_____ for each replacement battery pack.

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**ANNEX C**

**CERTIFICATION FORMS**

**Form 1  
OEM Certification Form**

This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.

Name of OEM \_\_\_\_\_

Signature of authorized signatory of OEM \_\_\_\_\_

Print Name of authorized signatory of OEM \_\_\_\_\_

Print Title of authorized signatory of OEM \_\_\_\_\_

Address for authorized signatory of OEM \_\_\_\_\_

Telephone no. for authorized signatory of OEM \_\_\_\_\_

Fax no. for authorized signatory of OEM \_\_\_\_\_

Date signed \_\_\_\_\_

Solicitation Number \_\_\_\_\_

Name of Bidder \_\_\_\_\_

**Form 2**

**Software Publisher Certification Form**

(to be used where the Bidder itself is the Software Publisher)

The Bidder certifies that it is the software publisher of all the following software products and components and that it has all the rights necessary to license them (and any non-proprietary sub-components incorporated into the software) on a royalty-free basis to Canada:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

[bidders should add or remove lines as needed]

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**Form 3**  
**Software Publisher Authorization Form**  
(to be used where the Bidder is not the Software Publisher)

This confirms that the software publisher identified below has authorized the Bidder named below to license its proprietary software products under any contract resulting from the bid solicitation identified below. The software publisher acknowledges that no shrink-wrap or click-wrap or other terms and conditions will apply, and that the contract resulting from the bid solicitation (as amended from time to time by its parties) will represent the entire agreement, including with respect to the license of the software products of the software publisher listed below. The software publisher further acknowledges that, if the method of delivery (such as download) requires a user to "click through" or otherwise acknowledge the application of terms and conditions not included in the bid solicitation, those terms and conditions do not apply to Canada's use of the software products of the software publisher listed below, despite the user clicking "I accept" or signalling in any other way agreement with the additional terms and conditions.

This authorization applies to the following software products:

\_\_\_\_\_

[bidders should add or remove lines as needed]

Name of Software Publisher (SP) \_\_\_\_\_

Signature of authorized signatory of SP \_\_\_\_\_

Print Name of authorized signatory of SP \_\_\_\_\_

Print Title of authorized signatory of SP \_\_\_\_\_

Address for authorized signatory of SP \_\_\_\_\_

Telephone no. for authorized signatory of SP \_\_\_\_\_

Fax no. for authorized signatory of SP \_\_\_\_\_

Date signed \_\_\_\_\_

Solicitation Number \_\_\_\_\_

Name of Bidder \_\_\_\_\_

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## **ANNEX D**

### **EVALUATION CRITERIA**

Please see attached document.

**ANNEX D**

**EVALUATION CRITERIA**

**Mandatory Technical Specifications**

Bidders must demonstrate meeting every mandatory criteria below by providing proof in their bids. Simply stating that the mandatory technical criteria is met or complied with is not sufficient. Failure to demonstrate meeting any of the mandatory criteria will result in the bid being deemed non-responsive.

Deliverable: The proposed Directional Wave Buoy must meet or exceed each of the specifications outlined below:

		Identify section and page number of proposal demonstrating requirement is met.
<b>1. Resolution and Accuracy</b>	<b>Heave</b>	1.1 Range: +/-20m
		1.2 Resolution: 0.01m
		1.3 Accuracy: 2% or better
	<b>Direction</b>	1.4 Period: 1.6 to 30 seconds
		1.5 Range: 0° - 360°
		1.6 Resolution: 1.4° (1 binary degree)
		1.7 Accuracy: 3°
	<b>Water Temperature</b>	1.8 Period: 1.6 to 30seconds (free floating)
		1.9 Range: -5° C to +46° C
		1.10 Resolution: 0.1° C
		1.11 Accuracy: <0.5° C

	<p>2.1 Onboard wave sensor must be comprised of a solid state 3D motion sensor and data processor with 6 degrees of freedom. The motion sensor must provide measurements of wave height (heave and pitch) as well as wave direction.</p>	
	<p>2.2 8 to 16 channels, 14 bit at a range of 3.8Hz to 4hz</p> <p>2.3 32 bits microprocessor system</p>	
	<p>3.1 Compact Flash Module: Datalogger capacity Minimum of 512 MB</p>	
	<p>3.2 International Association of Marine Aids to Navigation and Lighthouse Authorities (IALA) compliant LED flasher; and colour yellow with ODAS Buoy standard flash code (i.e. 5 flashes every 20 seconds)</p>	
<p><b>Type</b></p>		
<p><b>2. Sensor and Processing</b></p>		
<p><b>3. Standard features</b></p>		
<p><b>Integrated datalogger</b></p>		
<p><b>LED Flasher</b></p>		

	GPS position	3.3 12 channel, fix every 30 min, precision <10m
	Satellite Communication	3.4 Iridium, or INMARSAT, or other commercial satellite systems
	Mobile (wireless communications)	3.5 Mobile communications: GSM or CDMA (Suitable for buoy operation in North America)
	Radar Reflectors	3.6 Buoy must be equipped with radar deflectors to increase buoy visibility.
	Hull Material	4.1 Marine Grade Stainless steel (example: SS316, or AISI316, or Cunifer10)
	Hull Weight	4.2 Must weigh between 200-225Kg
	Hull Painting	4.3 Marine Grade Powder Coating Process; Color: Yellow
	Hull Diameter	4.4 0.8m to 1m (excluding fender if fender is included)
	Batteries	4.5 Buoy must operate unattended for 18 months or longer with a system of onboard batteries
<b>4. General</b>		

	<p><b>Temperature Range</b></p>	<p>4.6 Operating Temp Range -5°C - +35°C Storage Temp Range: -5°C - +40°C 4.7 Buoy required must operate unattended for a minimum of 18 months.</p>
	<p><b>Buoy Operation</b></p>	<p>To demonstrate this Bidder must provide documented proof of performance as well as the name of one (1) reference from a current client using buoy in operational marine observing program who can validate the buoy operates unattended for a minimum of 18 months.</p> <p>Client contact information must include:</p> <ul style="list-style-type: none"> <li>- Company Name;</li> <li>- Location;</li> <li>- Contact Name;</li> <li>- Current Telephone Number;</li> <li>- E-mail Address; and</li> </ul> <p>The reference will be contacted for verification purposes. If the reference contact person cannot be reached after three (3) attempts, the bid will be deemed non-responsive.</p>

**Point Rated Technical Criteria**

Each bid that meets all the mandatory criteria specified above will be evaluated and scored using the following evaluation grid.

**(Total Maximum points available: 15 points)**

Criteria	Specification	Points Available	Identify section and page number of proposal demonstrating requirement is met.
1	The Wave Buoy	1 point for 1GB – 8GB	

	should have expandable onboard memory (Compact Flash) of between 1GB of up to 32 GB	3 points for more than 8GB – 16GB 5 points for more than 16GB – 32GB For a total of 5 points	
2	Buoy should be capable of obtaining 100% of required power from solar panels with recharge of onboard batteries allowing for overnight and winter (low sun) operation for 3 months or more uninterrupted.	5 points	
3	Buoy solar panels should be able to continuously charge onboard batteries.	5 points	