

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
**Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada**  
**1713 Bedford Row**  
**Halifax, N.S./Halifax, (N.É.)**  
**B3J 1T3**  
**Bid Fax: (902) 496-5016**

**REQUEST FOR PROPOSAL**  
**DEMANDE DE PROPOSITION**

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

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

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

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

**Comments - Commentaires**

<b>Title - Sujet</b> PIPIT//PELICA FIRE SUPPRESSION	
<b>Solicitation No. - N° de l'invitation</b> F5561-145065/A	<b>Date</b> 2014-05-07
<b>Client Reference No. - N° de référence du client</b> F5561-14-5065	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-403-9261	
<b>File No. - N° de dossier</b> HAL-4-73015 (403)	<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 2014-05-12</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT
<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> Brow, Theresa	<b>Buyer Id - Id de l'acheteur</b> hal403
<b>Telephone No. - N° de téléphone</b> (902) 496-5166 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF FISHERIES AND OCEANS MARITIMES REGIONAL HQ BLDG 50 DISCOVERY DR - LEVEL 4 DARTMOUTH NOVA SCOTIA B2Y4A2 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**

Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
B3J 3C9

<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

### 1.1. Introduction

The bid solicitation and resulting contract document is divided into seven parts plus 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 and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of 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 Security, Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and

Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work; the Basis of Payment; Insurance Requirements; Warranty; Custody; Project Management Services; Financial Bid Presentation Sheet; Required Certifications; and Information Required for Code of Conduct Certification.

### 1.2 Requirement

1. The Statement of Work is;

a) To supply all the labour, materials and necessary equipment to remove the existing fire suppression system aboard the MV Pipit and Pelican at Bedford Institute of Oceanography and fit a NEW dual manual pull (main and reserve) fixed fire extinguishing system in accordance with Specification : Refit Specification Hydrographic Launch - MV Pipit & Pelican dated April 15, 2014 a copy of which is attached.

b) to carry out any approved unscheduled work not covered in paragraph a) above.

**C) The work is required to be completed by June 6th, 2014.**

2. There is no industrial security requirement associated with this solicitation. Other security requirements are outlined in Part 7, Article 3.

3. The requirement is exempt from the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), Annex 4 and the North American Free Trade Agreement (NAFTA), Chapter Ten Annex 1001.2b Paragraph 1; however, it is subject to the Agreement on Internal Trade (AIT) and will be limited to suppliers in Eastern Canada in accordance with Shipbuilding, Refit, Repair and Modernization Policy (1996-12-19).

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4. Pursuant to section 01 of Standard Instructions 2003 and 2004, a Consent to a Criminal Record Verification form, must be submitted with the bid, by the bid solicitation closing date, for each individual who is currently on the Bidder Board of Directors.

### 1.3 Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

## 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 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Section 07(3) of 2003, Standard Instructions - Goods or Services are amended as follows:

Delete: Furthermore, the Bidder must send a written confirmation of the bid within two (2) working days after bid closing, unless specified otherwise in the bid solicitation. All documents confirming bids should bear the word "CONFIRMATION".

### 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.

### 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) working 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.

### 2.4 Applicable Laws

1. Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.
2. The Bidder may, at its discretion, substitute the applicable laws of a Canadian province or territory of its choice without affecting the validity of its bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of its choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidder.

## **2.5 Site Visit - Vessel**

It is recommended that the Bidder or a representative of the Bidder visit the work site. To make arrangements to view the vessel contact Steven Christian @ (902) 426-2142 or (902) 471-0812.

## **2.6 Work Period - Marine**

1. Work must be completed prior to June 6, 2014.
2. By submitting a bid, the Bidder certifies that they have sufficient material and human resources allocated or available and that the above work period is adequate to both complete the known work and absorb a reasonable amount of unscheduled work.

# **PART 3 - BID PREPARATION INSTRUCTIONS**

## **3.1 Bid Preparation Instructions**

Canada requests that bidders provide their bid as follows:

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

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

If bids are submitted by facsimile in accordance with 2003 Standard Instructions, Section 07(3), as modified under Part 2, Article 1, then the bid should be provided in the same format as for hard copies.

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 are encouraged to :

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and/or 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: Financial Bid**

Bidders must submit their financial bid in accordance with Annex B Basis of Payment. Bidders must also submit the RFP completed and signed.

## **Section II: Certification Requirements**

Bidders must submit the certifications required in accordance with Part 5.

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

#### **4.1 Evaluation Procedures**

Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.2 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.

### **PART 5 - CERTIFICATIONS**

#### **5.1 General**

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications 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 contract award. 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 or to comply with the request of the Contracting Authority additional information will also render the bid non-responsive.

#### **5.2 Certifications Precedent to Contract Award**

The certifications listed below, (if required) should be submitted with the bid, but may be completed and submitted afterwards. If any of these required certifications are not completed or 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.

1. Insurance Certification as per Part 6.3 and Annex C
2. Workers compensation letter of good standing as per Part 6.4
3. Welding Certification as per Part 6.5
4. Labour agreement as per Part 6.6
5. Subcontractors list as per Part 6.11

6. Federal Contractors Program for Employment Equity - Certification as per 6.12 and Annex J
7. Code of Conduct Information Required as per 5.4 and Annex K

### 5.3 Certifications Required with the Bid

Bidders must submit the following duly completed certifications as part of their bid.

1. Tender Document completed and signed.
2. Pricing information as contained in Annex B.

### 5.4 Code of Conduct Certifications - Certifications Required Precedent to Contract Award

Bidders should provide, with their bid or promptly thereafter, a complete list of names of all individuals who are currently directors of the Bidder. If such a list has not been received by the time the evaluation of bids is completed, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Bidders must submit the list of directors before contract award, failure to provide such a list within the required time frame will render the bid non-responsive.

The Contracting Authority 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 named in the aforementioned list within a specified delay. Failure to provide such Consent Forms within the delay will result in the bid being declared non-responsive.

## PART 6 - FINANCIAL, SECURITY AND OTHER REQUIREMENTS

### 6.1 Security Requirement

There is no industrial security requirement associated with this requirement.

### 6.2 Financial Capability

SACC Manual Clause A9033T (2012-07-16) Financial Capability

### 6.3 Insurance Requirements

The Bidder must provide a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as a result of the bid solicitation, can be insured in accordance with the Insurance Requirements specified at Annex "C".

If the information is not provided in the bid, 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.

### 6.4 Workers Compensation - Letter of Good Standing

The Bidder must have an account in good standing with the applicable provincial or territorial Workers' Compensation Board.

The Bidder must provide, within two (2) working days, following a request from the Contracting Authority, a certificate or letter from the applicable Workers' Compensation Board confirming the Bidder's good



standing account. Failure to comply with the request may result in the bid being declared non-responsive.

#### **6.5 Welding Certification (if required)**

1. Welding must be performed by a welder certified by the Canadian Welding Bureau and in accordance with the requirements of the following Canadian Standards Association (CSA) standards:
  - (a) CSA W47.1-03, Certification of Companies for Fusion Welding of Steel (*Minimum Division Level 2.1*);
2. Before contract award and within two (2) working days of the written request by the Contracting Authority, the successful Bidder must submit provide evidence demonstrating its certification to the welding standards. In addition, welding must be done in accordance with the requirements of the applicable drawings and specifications.

#### **6.6 Valid Labour Agreement**

If the Bidder has a labour agreement, or other suitable instrument, in place with its unionized labour or workforce, it must be valid for the proposed period of any resulting contract. Before contract award and within two (2) working days of written notification by the Contracting Authority, the successful Bidder must provide evidence of that agreement.

#### **6.7 Project Schedule**

Before contract award and within two (2) working days of written notification by the Contracting Authority, the successful Bidder must propose its preliminary project schedule. The project schedule must include the Bidder's work breakdown structure; the scheduling of main activities and milestone events; and any potential problem areas involved in completing the Work.

#### **6.8 List of Proposed Subcontractors**

If the bid includes the use of subcontractors, the Bidder agrees, within two (2) working days of written notification from the Contracting Authority, to provide a list of all subcontractors including a description of the things to be purchased, a description of the work to be performed and the location of the performance of that work. The list should not include the purchase of off-the-shelf items, software and such standard articles and materials as are ordinarily produced by manufacturers in the normal course of business, or the provision of such incidental services as might ordinarily be subcontracted in performing the Work.

### **PART 7 - RESULTING CONTRACT CLAUSES**

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

#### **7.1 Statement of Work**

The Contractor must:

- a) To supply all the labour, materials and necessary equipment to remove the existing fire suppression system aboard the MV Pipit and Pelican at Bedford Institute of Oceanography

and fit a NEW dual manual pull (main and reserve) fixed fire extinguishing system in accordance with Specification : Refit Specification Hydrographic Launch - MV Pipit & Pelican dated April 15, 2014 a copy of which is attached.

b) Carry out any approved unscheduled work not covered in paragraph (a) above.

## 7.2 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 (SACC) Manual issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website: (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>)

### 7.2.1 General Conditions

2030 (2013-06-27) General Conditions - Goods - Higher Complexity

### 7.2.2 Supplemental General Conditions

1029 (2010-08-16) Ship Repairs

## 7.3 Security Requirement

1. There is no industrial security requirement associated with this contract.
2. Access to Port Facilities and Government vessels is controlled. The Contractor must comply with applicable requirements. A system of positive identification, sign-in and out, and wearing of identification badges while within Port facilities or on board Government vessels is required.
3. The Contracting and the Technical Authority reserve the right to direct that Contractors personnel be security cleared as necessary.

## 7.4 Term of Contract

### 7.4.1 Work Period- Marine

1. Work must be completed as follows: 6 June 2014
2. The Contractor certifies that they have sufficient material and human resources allocated or available and that the above work period is adequate to both complete the known work and absorb a reasonable amount of unscheduled work.

## 7.5 Authorities

### 7.5.1 Contracting Authority

The Contracting Authority for the Contract is:  
Theresa Brow, Marine Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch, Atlantic Region

1713 Bedford Row, Halifax, Nova Scotia B3J 3C9

Telephone: (902) 496-5166

Facsimile: (902) 496-5016

E-mail address: theresa.brow@pwgsc-tpsgc.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.

### **7.5.2 Project Authority**

The Project Authority for the Contract will be:

Steven Christian

(902 426-2142

Cell: (902) 471-0812.

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.

## **7.6 Payment**

### **7.6.1 Basis of Payment - Firm Price or Firm Lot 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 of \$ TBD. 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.

### **7.6.2 Method of Payment - Single Payment**

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

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

### 7.6.3 SACC Manual Clauses

C6000C (2011-05-16) Limitation of Price

C0711C (2008-05-12) Time Verification

### 7.7 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.

### 7.8 Certifications

SACC Manual Clause A3015C (2008-12-12) Certifications

### 7.9 Applicable Laws

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

### 7.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2030 (2012-11-19) General Conditions - Goods (Higher Complexity);
- (c) the supplemental general conditions 1029 (2010-08-16) Ship Repairs;
- (d) Annex A, Statement of Work;
- (e) Annex B, Basis of Payment;
- (f) Annex C, Insurance Requirements;
- (g) Annex D, Consent to a Criminal Record Verification (PWGSC-TPSGC 229);
- (h) Annex E, Warranty;
- (i) Annex F, Required Certifications;
- (n) Annex G, Information Required for Code of Conduct Certification; and
- (o) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*)

### 7.11 Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex C. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

### 7.12 Sub-Contractors List

The Contracting Authority is to be notified, in writing, of any changes to the list of subcontractors before commencing the work.

When the Contractor sub-contracts work, a copy of the sub-contract purchase order is to be passed to the Contracting Authority. In addition, the Contractor must monitor progress of sub-contracted work and inform the Inspection Authority on pertinent stages of work to permit inspection when considered necessary by the Inspection Authority.

### 7.13 Trade Qualifications

The Contractor must use qualified, certified (if applicable) and competent tradespeople and supervision to ensure a uniform high level of workmanship. The Inspection Authority may request to view and record details of the certification and/or qualifications held by the Contractors tradespeople. This request should not be unduly exercised but only to ensure qualified tradespeople are on the job.

### 7.14 Welding Certification

1. The Contractor must ensure that welding is performed by a welder certified by the **Canadian Welding Bureau (CWB)** in accordance with the requirements of the following **Canadian Standards Association (CSA)** standards:

- (a) CSA W47.1-03, Certification for Companies for Fusion Welding of Steel Structures Minimum division level 2.0;
2. In addition, welding must be done in accordance with the requirements of the applicable drawings and specifications.
3. Prior to the commencement of any fabrication work, and upon request from the Inspection Authority, the Contractor must provide approved welding procedures and/or a list of welding personnel he intends to use in the performance of the Work. The list must identify the CWB welding procedure qualifications attained by each of the personnel listed and must be accompanied by a copy of each person's current CWB welding certification.

### 7.15 Environmental Protection

The Contractor and its subcontractors engaged in the Work on a Canadian Government vessel must carry out the Work in compliance with applicable municipal, provincial and federal environmental laws, regulations and industry standards.

The Contractor must have detailed procedures and processes for identifying, removing, tracking, storing, transporting and disposing of all potential pollutants and hazardous material encountered, to ensure compliance as required above. All waste disposal certificates are to be provided to the Inspection Authority, with information copies sent to the Contracting Authority. Furthermore, additional evidence of compliance with municipal, provincial and federal environmental laws and regulations is to be furnished by the Contractor to the Contracting Authority when so requested.

The Contractor must have environmental emergency response plans and/or procedures in place. Contractor and subcontractor employees must have received the appropriate training in emergency preparedness and response. Contractor personnel engaging in activities which may cause environmental impacts or potential non compliance situations, must be competent to do so on the basis of appropriate education, training, or experience.

#### **7.16 Licensing**

The Contractor must obtain and maintain all permits, licenses and certificates of approval required for the Work to be performed under any applicable federal, provincial or municipal legislation. The Contractor is responsible for any charges imposed by such legislation or regulations. Upon request, the Contractor must provide a copy of any such permit, license or certificate to Canada.

#### **7.17 Workers Compensation**

SACC Manual Clause A0285C (2007-05-25) Workers Compensation

Solicitation No. - N° de l'invitation

F5561-145065/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

ha1403

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

File No. - N° du dossier

CCC No./N° CCC - FMS No/ N° VME

F5561-14-5065

HAL-4-73015

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## **ANNEX A STATEMENT OF WORK**

The entire Statement of Work is incorporated into and forms part of this document. It is attached hereto as a separate electronic document entitled:

**HYDROGRAPHIC LAUNCH - MV Pipit & Pelican  
Refit, Specification No. 1  
April 15, 2014**

## ANNEX B BASIS OF PAYMENT

### B1 Contract Price

Removal of existing fire suppression system (H-01) \$ \_\_\_\_\_

Installation of new fire suppression system (H-02) \$ \_\_\_\_\_

Staging (erect and remove) \$ \_\_\_\_\_

HST \$ \_\_\_\_\_

Total Contact Price \$ \_\_\_\_\_

Firm Hourly Charge-out Labour Rate \$ \_\_\_\_\_

### B2 Unscheduled Work

Unscheduled work arising, as authorized by the Minister, will be calculated in the following manner:

Number of hours (to be negotiated) multiplied by your firm hourly *Charge-out Labour Rate* which includes *Overhead* and profit, plus net laid-down cost of materials to which will be added a 10% mark-up, plus Goods and Services Tax or Harmonized Sales Tax as applicable, of the total cost of material and labour. The firm hourly *Charge-out Labour Rate* and the material mark-up will remain firm for the duration of the Contract and any subsequent amendments.

**B2.1** Notwithstanding definitions or usage elsewhere in this document, or in the Bidders Cost Management System, when negotiating *Hours* for unscheduled work, PWGSC will consider only those hours of labour directly involved in the production of the subject work package. Elements of *Related Labour Costs* identified in I2.2 will not be negotiated, but will be compensated for in accordance with I2.2. It is therefore incumbent upon the Bidder to enter values in the above table which will result in fair compensation, regardless of the structure of their Cost Management System.

**B2.2:** Allowance for *Related Labour Costs* such as: Management, Direct Supervision, Purchasing and Material Handling, Quality Assurance and Reporting, First Aid, Gas Free Inspecting and Reporting, and Estimating will be included as *Overhead* for the purposes of determining the *Charge-out Labour Rate*.

**B2.3:** The 10% mark-up rate for materials will also apply to subcontracted costs. The mark-up rate includes any allowance for material and subcontract management not allowed for in the Chargeout Labour Rate. A separate labour component for the purchase and handling of materials or subcontract administration is not allowable.

### B3 Overtime



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No overtime work will be compensated for under the Contract unless authorized in advance and in writing by the Contracting Authority. Any request for payment must be accompanied by a copy of the overtime authorization and a report containing such details as Canada may require with respect to the overtime work performed. Compensation for authorized overtime will be calculated by taking the average hourly direct labour rate premiums, plus certified fringe benefit additives, plus profit of 7 1/2 percent on labour premium and fringe benefits. These rates will remain firm for the duration of the Contract including all amendments and are subject to audit if deemed necessary by Canada.

## ANNEX C INSURANCE REQUIREMENTS

### C1 Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability Insurance policy must include the following:
  - (a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
  - (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
  - (c) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
  - (d) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
  - (e) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
  - (f) Employees and, if applicable, Volunteers must be included as Additional Insured.
  - (g) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
  - (h) Notice of Cancellation: The Insurer will endeavor to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
  - (i) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
  - (j) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
  - (k) Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.  
(Derived from - Provenant de: G2001C, 2008-05-12)

### C2. Limitation of Liability

1. This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees.
2. Whether the claim is based in contract, tort, or another cause of action, the Contractor's liability for all damages suffered by Canada caused by the Contractor's performance of failure to perform the Contract is limited to \$10,000,000.00 per incident or an annual aggregate of \$20,000,000 for damages caused in any one occurrence, to year of carrying out of the Contract, each such year starting on the date of

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coming into force of the Contract  
liability of \$40,000,000.00. This limitation of the

or its anniversary, and to a total maximum  
Contractor's liability does not apply to:

- (a) any infringement of intellectual property rights; or
- (b) any breach of warranty obligations.

in  
claim  
several

3. Each Party agrees that it is fully liable for any damages that it causes to any third party connection with the Contract, regardless of whether the third party makes its against Canada or the Contractor. If Canada is required, as a result of joint and liability, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada for that amount.

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**ANNEX D**

**Consent to a Criminal Record Verification (PWGSC-TPSGC 229)**

**Available as an attachment via GETS**

## ANNEX E WARRANTY

### **D1 2030 (2013-06-27) General Conditions - Goods (Higher Complexity), are hereby amended as follows:**

Delete Section 2030 (22) (2013-06-27) Warranty, and Insert the following:

1. At the discretion of the Minister, the Contractor will replace or make good at its own expense any finished work, excluding Government Issue incorporated therein, which becomes defective or which fails to conform to contract requirements as a result of faulty or inefficient manufacture, material or workmanship.
2. Notwithstanding prior acceptance of the finished work, and without restricting any other term of the Contract or any condition, warranty or provision implied or imposed by law, the Contractor hereby warrants that the following are free from all defects and conform with the requirements of the contract:

- a. The painting of the underwater portion of the hull for a period of three hundred sixty five (365) days commencing from the date of undocking, except that the Contractor will only be liable to repair and/or replace to a value to be determined as follows:  
Original cost to Canada of the underwater painting Work, divided by three hundred sixty five (365) days and multiplied by the number of days remaining in the warranty period.  
The resultant would represent the "Dollar Credit" due to Canada from the Contractor.

All other painting Work for a period of three hundred sixty five (365) days commencing from the date of acceptance of the Work;

- b. All parts and materials supplied for the Work for a period of three hundred and sixty five (365) days commencing from the date of acceptance of the Work;
- c. All other items of Work for a period of ninety (90) days commencing from the date of acceptance of the Work, except that:
  - i. the warranty on the Work related to any system or equipment not immediately placed in continuous use or service must extend for a period of ninety (90) days from the date of acceptance of the vessel;
  - ii. for all outstanding defects, deviations, and Work items listed on the Acceptance Document at Delivery, the Warranty will be ninety (90) days from the subsequent date of acceptance for each item.

3. The Contractor agrees to pass to Canada, and exercise on behalf of Canada, all warranties on the Materials and/or labour supplied or held by the Contractor which exceed the periods indicated above.

### **D2 Warranty Procedures**

#### **1. Scope**

- a. The following are the procedures which suit the particular requirements for warranty considerations for a vessel on completion of a refit.

#### **2. Definition**

- a. There are a number of definitions of warranty most of which are intended to describe its force and effect in law. One such definition is offered as follows:  
A warranty is an agreement whereby the vendors or manufacturers responsibility for performance of its product is extended for a specific period of time beyond the date at which the title to the product passes to the buyer.

### 3. Warranty Conditions

- a. General Conditions 2030 General Conditions - Goods (Higher Complexity) are augmented by clauses incorporated into the subject Contract.
- b. The warranty periods may be stated in more than one part:
  - i. 90 days commencing from the day the PWGSC 1205 Acceptance Document is signed for workmanship provided by the contractor for the refit work specified;
  - ii. 365 days from the date of acceptance for the specified areas of painting;
  - iii. 365 days commencing from the day the PWGSC 1205 Acceptance Document is signed for parts and material provided by the contractor for the refit work specified;
  - iv. Any other specific warranty periods that may be required in the contract or offered by the Contractor.
- c. The foregoing does not cover the disposition of other deficiencies that will be directly related to Technical Authority problem areas of the following nature:
  - i. items becoming unserviceable that were not included in the refit specification;
  - ii. refit specifications or other related documentation requiring amendments or corrections to increase viability; and
  - iii. work performed that is directly related to the Technical Authority.

### 4. Reporting Failures With Warranty Potential

- a. The initial purpose of a report of a failure is to facilitate the decision as to whether or not to involve warranty and to generate action to effect repairs. Therefore in addition to identification, location data, etc. the report must contain details of the defect. Warranty decisions as a general rule are to be made locally and the administrative process is to be in accordance with procedures as indicated.
- b. These procedures are necessary as invoking a warranty does not simply mean that the warrantor will automatically proceed with repairs at his expense. A review of the defect may well result in a disclaimer of responsibility, therefore, it is imperative that during such a review the Department is directly represented by competent technical authority qualified to agree or disagree with the warrantors assertions.

### 5. Procedures

- a. Immediately it becomes known to the Ship's Staff that an equipment/system is performing below accepted standards or has become defective, the procedures for the investigation and reporting are as follows:
  - i. The vessel advises the Technical Authority when a defect, which is considered to be directly associated with the refit work, has occurred.
  - ii. On review of the Specification and the Acceptance Document, the Technical Authority in consort with Ship's Staff is to complete the Tombstone Data and section 1 of the Warranty Claim Form Appendix 1 to Annex E and forward the original to the Contractor for review with a copy to the PWGSC contracting Authority. If the PWGSC Contracting or Inspection Authority is unable to support warranty action, the Defect Claim Form will be returned to the originator with a brief justification. (It is to

be noted that in the latter instance PWGSC will inform the Contractor of its decision and no further action will be required of the Contractor.

Warranty defect claims may be forwarded in hard copy, by fax or by e-mail whichever format is the most convenient.

- iii.. Assuming the Contractor accepts full responsibility for repair, the Contractor completes Section 2 and 3 of the Warranty Claim Form, returns it to the Inspection Authority who confirms corrective action has been completed, and who then distributes the form to the Technical Authority and the PWGSC Contracting Authority.
- b. In the event that the Contractor disputes the claim as a warranty defect, or agrees to share, the contractor is to complete Part 2 of the Warranty Claim Form with the appropriate information and forward it to the Contracting Authority who will distribute copies as necessary.
- c. When a warranty defect claim is disputed by the Contractor, the Technical Authority may arrange to correct the defect by in-house resources or by contracting the work out. All associated costs must be tracked and recorded as a possible charge against the contractor by PWGSC action. Material costs and manhours expended in correcting the defect are to be recorded and entered in Section 5 of the warranty defect claim by the Technical Authority who will forward the warranty defect claim to the PWGSC Contracting Authority for action. Defective parts of equipment are to be retained pending settlement of claim.
- d. Defective equipment associated with potential warranty should not normally be dismantled until the contractors representative has had the opportunity to observe the defect. The necessary work is to be undertaken through normal repair methods and costs must be segregated as a possible charge against a contractor by PWGSC action.

## 6. Liability

- a. Agreement between the Contracting Authority, Inspection Authority, Technical Authority and the Contractor will result in one of the following conditions:
  - i. The contractor accepts full responsibility for costs to repair or overhaul under the warranty provisions of the contract;
  - ii. The Technical Authority accepts full responsibility for repair and overhaul of item concerned; or
  - iii. The Contractor and the Technical Authority agree to share responsibility for the costs to repair or overhaul the unserviceable item, in such cases the PWGSC Contracting Authority will negotiate the best possible sharing arrangement.
- b. In the event of a disagreement as in paragraph 5c, PWGSC will take necessary action with the contractor while the Technical Authority informs its Senior Management including pertinent data and recommendations.
- c. The total cost of processing warranty claims must include accommodation and travel costs of the contractors employees as well as equipment/system down time and operational constraints. Accordingly, the cost to remediate the defect, in manhours and material, will be discussed between the Contracting/Inspection Authorities and the Technical Authority to determine the best course of action.

## 7. Alongside Period For Warranty Repairs and Checks

- a. If at all possible, an alongside period for the vessel is to be arranged just before the expiration of the 90 day warranty period. This alongside period is to provide time for warranty repair and check by the contractor.

- b. In respect to the underwater paint, should it become defective during the associated warranty period the contractor is only liable to repair to a value determined as follows: Original cost to Canada for painting and preservation of the underwater section of the hull, divided by three hundred sixty five (365) days and multiplied by the number of days remaining in the period. The resultant would represent the Dollar Credit due to Canada from the Contractor.
- c. The Underwater paint system, before expiration of the warranty, should be checked by divers. The Technical Authority, is to arrange the inspection and inform the Contracting Authority of any adverse results.



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**APPENDIX 1 to ANNEX E**

Public Works and Government Services Canada

Travaux publics et Services gouvernementaux  
Canada**Warranty Claim****Rclamation De Garantie**

Vessel Name Nom de navire	File No. N de dossier	Contract No. - N de contrat
Customer Department Ministre client		Warranty Claim Serial No. Numro de srie de rclamation de garantie
Contractor Entrepreneur		<b>Effect on Vessel Operations</b> <b>Effet sur des oprations de navire</b> Critical    Degraded    Operational    Non-operational

**1. Description of Complaint Description de plainte**

Contact Information l'information de contact

\_\_\_\_\_  
Name Nom

Tel. No. - N TI

Signature Signature

Date

**2. Contractors Investigative Report Le rapport investigateur de l'entrepreneur****3. Contractors Corrective Action La modalit de reprise de l'entrepreneur**

Contractors Name and Signature Nom et signature de l'entrepreneur

Date of Corrective Action - Date de modalit de reprise

Client Name and Signature - Nom et signature de client

Date

**4. PWGSC Review of Warranty Claim Action Examen d'action de rclamation de garantie par TPSGC**

Signature Signature

Date

**5. Additional Information Renseignements supplmentaires****Canada**

pWGSC-TPSGC

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**ANNEX F**  
**INFORMATION REQUIRED FOR CODE OF CONDUCT CERTIFICATION**

Please provide list of names of the following entities, according to the ownership nature of the company

1. For a Corporation - each current member of the Bidder's Board of Directors;

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2. For a Partnership, General Partnership or Limited Partnership - the names of all current partners;

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3. For a Sole Proprietorship or an individual doing business under a firm name - the name  
of the sole proprietor or individual;

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4. For a Joint Venture - the names of all current members of the Joint venture;

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5. For an individual - the full name of the person

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Fisheries and Oceans  
Canada

Canadian Coast Guard

Pêches et Océans  
Canada

Garde côtière canadienne

## CANADIAN COAST GUARD



### REFIT SPECIFICATION

HYDROGRAPHIC LAUNCH – MV Pipit & Pelican

### **SPECIFICATION NO. 1**

April 15, 2014

DARTMOUTH, NOVA SCOTIA



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## **GENERAL NOTES**

The Canadian Hydrographic Service (CHS) vessels MV Pipit and Pelican have been made ready for repairs; the main engine, gearbox and generator were removed. Space shall be provided in the Canopy work shop for Contractors to perform the work identified in this specification.

Vessel particulars are as follows:

Vessel Location	Dartmouth, Nova Scotia
Year Built	1987-1989
Yard	Harbour Marine Services
Length Overall	9.6 Metres
Breadth Molded	2.7 Metres
Draft	1.4 Metres

1. Information provided in this specification is for guidance only; all drawings, dimensions, descriptions, locations, measurements, values, materials, etc. are subject to Contractor verification prior to any work commencing on a specification item.
2. All work must be performed in compliance with Transport Canada Marine Safety Branch (TCMSB) Regulations and will be subject to inspection by their surveyors. The Contractor is responsible for contacting the local TCMSB inspector for all required TCMSB inspections items and approvals.
3. Where the approval of any other authority is required by law or by condition for work contained in this specification, the Contractor is responsible for obtaining those approvals.
4. Contractor shall identify all personnel that will be involved in the refit including Project Managers, Engineering personnel and System Specialists, etc. In each case, including the Prime Contractor, the credentials and accreditations of the parties are to be identified; along with details of successful experiences involving previously similar projects.
5. All work to be witnessed by the Owner, unless otherwise advised, will be the assigned Work Shop Supervisor Steven Christian for the refit or Public Works Government Service Canada (PWGSC) Technical Inspector.

### **GENERAL NOTES (Cont.)**

6. Upon completion of each item in the specification, the Owner shall be notified so that he/she may view any or all work prior to final close up and after complete close up. Failure to give notification does not absolve the Contractor's responsibility for providing the Owner the opportunity to witness an item; respectively witnessing an item by the Owner does not substitute for inspection by TCMSB or other authority required by law.
7. Contractor shall supply labour, material and equipment to erect staging for access as necessary to carry out specified work and additional work as agreed, and to remove same upon completion. Staging is to be included in the quotation for all applicable specification items. Contractor to include the cost of any and all transportation, rigging, slinging, carnage, removals, and installations of parts and equipment, as may be required to carry out the identified work.
8. Whenever work is being carried out involving the ship's firefighting or fire detecting systems, it shall be done in such a way as to leave the vessel and any persons aboard with adequate protection against fire at all times.
9. Any item of work involving the use of heat in its execution requires that the Contractor advise the Owner prior to starting such heating and upon its completion. The Contractor shall provide sufficient suitable fire extinguishers and fire watch and/or safety person during such heating, until the work has cooled. Ship's extinguishers are not to be used except in an emergency. The Owner shall be notified immediately if an incident of this nature occurs. Contractor shall recharge, at their expense, the ship's extinguishers used in an emergency situation.
10. There is a safety annex attached to this specification entitled "INTERNATIONAL SAFETY MANAGEMENT CODE". In addition to the detailed requirements within the specification, this annex contains excerpts from the document, FLEET SAFETY MANUAL" that are applicable to contracted refit and dry-docking situations and shall be treated as a minimum requirement with flexibility for using other policies of similar stature or greater. It is noted in the annex that all contracted work shall be conducted in compliance with the requirements of the Canada Labour Code, Part 2. Potential Contractors are to include the name of their Safety Manager or Supervisor who will ensure that these requirements for workplace safety are met. Failure to include this information will render bids non-compliant.
11. All conditions, stipulations etc. listed in these General Notes apply to Sub-Contractors employed by the Main Contractor when carrying out work on a specification item.

## **GENERAL NOTES (Cont.)**

12. Contractor shall ensure that all spaces, compartments and areas are left in as clean a condition as found. Removing dirt, debris, and associated materials to be included in the quotation.
13. Contractor is responsible for contacting and requesting the services of TCMSB, PWGSC and any other authority required by regulation or law for survey and inspection items.
14. Contractor shall have a proven Quality Assurance Program in place or be presently working toward a program which meets CSA's Z299 series of Quality Assurance Program Standards
15. All tests results, calibrations, measurements, trials and readings are to be properly tabulated, compiled and three typewritten copies are to be provided; two copies to the Owner with workers original hand written notes and one copy to the PWGSC inspector. An electronic copy in Microsoft Word™ will be sent to Mr. Steven Christian at [steven.christian@dfo-mpo.gc.ca](mailto:steven.christian@dfo-mpo.gc.ca). All tests and trials are to be performed to the satisfaction TCMSB marine surveyor, PWGSC inspector and witnessed by the Owner.
16. While the vessels are in storage / refit, members of the ship's crew, Regional Coast Guard technical staff, specialized service engineers, will carry out repairs to; maintenance of; or modifications of various ship's equipment not covered by this specification. Every effort will be made to ensure that this self-maintenance and Coast Guard controlled work shall not interfere or conflict with the work being carried out by the Contractor's personnel. Access to the vessel shall not be denied to these persons by the Contractor. Any conflict with work priorities shall be arranged between the Owner and the Contractor.
17. Public Service Smoking Policy forbids smoking in Government ships in all areas inside the ship where shipyard personnel will be working. Contractor shall inform shipyard personnel of this policy and ensure that it is complied with in all cases.
18. All materials, unless otherwise specified, shall be CFM.
19. Contractor shall take note that items in this specification are not detailed and require viewing in order to bid. Although not mandatory it is strongly recommended that the Contractor arrange a site visit to exam the Hydrographic launch MV Pipit and Pelican located at the Bedford Institute of Oceanography, Dartmouth Nova Scotia prior to submitting a bid. Bidders who do not view the vessel in order to determine the scope of work will be evaluated as if they had attended the site visit and are fully aware of the vessels existing condition prior to the refit.

**GENERAL NOTES (Cont.)**

20. Contractor shall contact the Canadian Coast Guard Integrated Technical Services Supervisor Marine Engineering, Steven Christian, at (902) 426-2142 or (902) 471-0812 prior to any site visit. They will arrange and confirm vessel location and time of viewing.
21. It is very important to minimize any additional weight to the vessel.
22. Upon completion of all the repair work the Contractor shall clean the vessel to the condition it was delivered in.

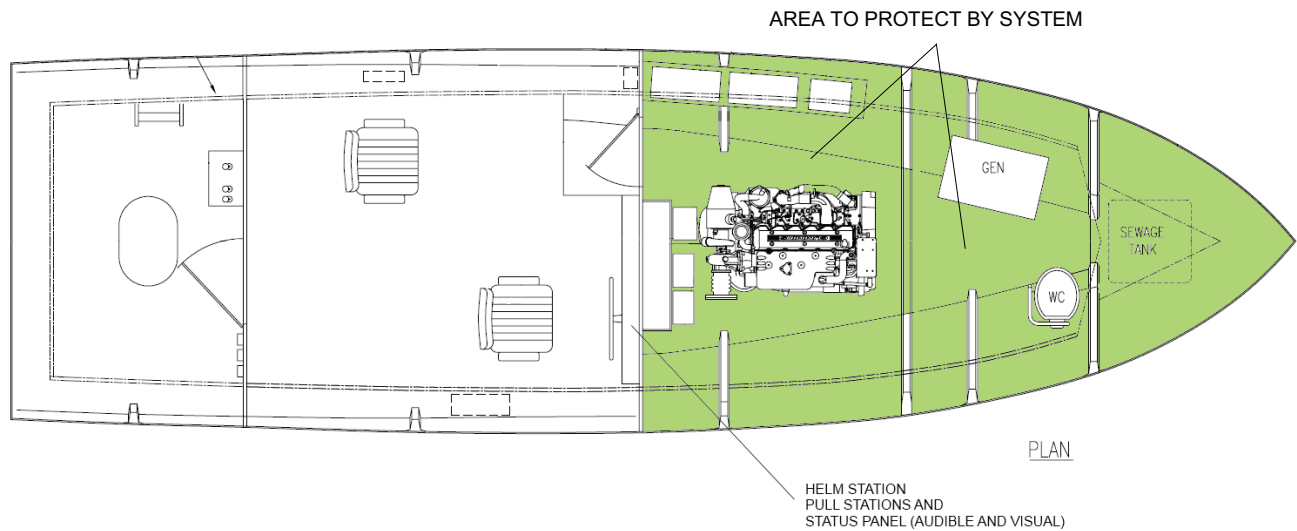


## **H-01 FIRE DETECTION MACHINERY SPACE**

1. Contractor shall remove the existing fire suppression system aboard the locate MV Pipit and Pelican at the Bedford Institute of Oceanography. The existing system consists of cylinders, piping. Fittings, brackets, wiring, alarms, labels, cables and manual pull handles.
2. A fire detection system shall be installed within the engine / auxiliary space in accordance with TCMSB's Construction Standard for Small Vessels TP1332 (2010) section 10.0 Fire Safety. As a minimum this system must have a heat rise detector within the protected space that will provide audible and visual indication of heat rise to the operator. The audible and visual alarm indicators must be located in accordance with TP1332.

## **H-02 FIRE PROTECTION MACHINERY SPACE**

1. The MV Pipit and Pelican fire protection system installation shall be in accordance with TP1332 (2010) section 10.0 Fire Safety requirements.  
  
<http://www.tc.gc.ca/eng/marinesafety/tp-tp1332-menu-521.htm>
2. The MV Pipit and Pelican shall be fitted with a dual manual pull (main and reserve) fixed fire extinguishing system. The agent and bottles used in this system must be approved by Transport Canada. Contractor shall supply and install a remote shut off for the main engine, generator and exhaust fan(s); it shall be operational from the main wheelhouse - preferably near the helm position.
3. In order to comply with TCMSB's TP1332 section 10.4.2.1 general requirements, the bulkhead between the engine compartment and the main cabin must remain gas tight. Therefore, all penetrations of this bulkhead must be fitted with a gas tight sealing gland.
4. Contractor shall install the new manual pull system cables in such a way that it will not interfere with normal operations of the vessel and no person shall be able to accidentally pull the cable (activate the cylinders) within the engine / auxiliary space.



### **MV PIPIT AND PELICAN ENGINE ROOM:**

Approximate Engine / Auxiliary Room volume: 558 cu. ft.

### **GENERAL MATERIAL REQUIRED:**

This list is provided as a minimum requirement for bidding purposes, the Contractor shall assess the areas being protected and provide an updated list. Contractor shall provide a cost for supply and installation.

- 2 each – 40 lb. Cylinder c/w Brass Valve & 27 lbs. FM-200 Gas per Cylinder
- 2 each – Bracket, Pull Station, Cable Operated Control Head, 3/4" Check Valve, Nitrogen Pilot Cylinder
- 1 each – Lever Control Head, Pressure Control Head, 30 sec. Discharge Time Delay, Pressure Operated Siren, Pressure Switch, Nozzle & Warning Signs
- 1 each – Lot Drawings & FM-200 Calculations

#### **Piping work:**

All existing piping, fittings and brackets shall be removed and disposed of by the Contractor.

Contractor shall calculate the required materials (i.e. piping, fittings, cabling, wiring, brackets, etc.) based on the area being protected and to meet TP1332. Contractor shall supply and install the new materials in accordance with Transport Canada TP1332 firefighting standards.

Contractor shall clean the vessel to the condition it was delivered in.

