



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

**Bid Receiving - PWGSC / Réception des
soumissions - TPSGC**

11 Laurier St. / 11, rue Laurier

Place du Portage , Phase III

Core 0B2 / Noyau 0B2

Gatineau

Québec

K1A 0S5

Bid Fax: (819) 997-9776

**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

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Marine Machinery and Services / Machineries et services maritimes

11 Laurier St. / 11, rue Laurier

6C2, Place du Portage

Gatineau

Québec

K1A 0S5

Title - Sujet HVAC SYS CCGS G PEARKES & A HARVEY		
Solicitation No. - N° de l'invitation F7049-160078/A		Date 2016-09-26
Client Reference No. - N° de référence du client F7049-160078		
GETS Reference No. - N° de référence de SEAG PW-\$\$ML-050-25991		
File No. - N° de dossier 050ml.F7049-160078	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-11-07		Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Richer, Francois		Buyer Id - Id de l'acheteur 050ml
Telephone No. - N° de téléphone (873) 469-4752 ()		FAX No. - N° de FAX (819) 956-6648
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Canadian Coast Guard Base (CCG), 280 Southside Road, St. John's, NL A1E 0A3		

Instructions: See Herein

Instructions: Voir aux présentes

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

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Part 1 – GENERAL INFORMATION

1.1 Security Requirement

There is no security requirement associated with this bid solicitation.

1.2 Statement of Requirement

This requirement is for the Supply of two New Heating Ventilation and Air Conditioning (HVAC) Systems and associated spare parts for the Canadian Coast Guard Ship (CCGS) Ann Harvey and Canadian Coast Guard Ship (CCGS) George R. Pearkes, with the option to purchase up to two more HVAC systems of the same model, with its associated spares, within 24 months after contract award.

SACC Manual Clause B4008C (2014-06-26) Requirement – Contract

1.3 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 from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.4 Defence Contract

The Contract is a defence contract within the meaning of the [Defence Production Act](#), R.S.C. 1985, c. D-1, and must be governed accordingly.

Title to the Work or to any materials, parts, work-in-process or finished work must belong to Canada free and clear of all claims, liens, attachments, charges or encumbrances. Canada is entitled, at any time, to remove, sell or dispose of the Work or any part of the Work in accordance with section 20 of the [Defence Production Act](#).

SACC Manual Clause A9006C (2012-07-16) Defence Contract

1.5 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

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 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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 7 calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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

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

2.5 Optional Site Visit – Vessel

It is recommended that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for the site visit to be held on October 13, 2016 at 9:00AM at the Canadian Coast Guard Base (CCG), located at 280 Southside Road, St. John's, NL A1E 0A3. All visitors have to report to the Main Gate – Commissionaires, where they will sign in and be directed to the Public Services and Procurement Canada (PSPC) representative.

Bidders may park in the parking lots located at the front of the building. All Bidders must have valid identification to sign in at the CCG building main entrance, reception desk.

Bidders are requested to communicate with the Contracting Authority (CA) no later than three (3) business days (excluding weekends and holidays) prior to the site visit date to confirm attendance and provide the name(s) of the person(s) who will attend. Bidders may be requested to sign an attendance sheet. Bidders who do not attend or do not send a representative will not be given an alternative appointment, but they will not be precluded from submitting a bid. Any clarifications or changes to the bid solicitation resulting from the site visit will be included as an amendment to the bid solicitation.

2.6 Bidders' Conference

A bidder's conference chaired by the CA will be held at Canadian Coast Guard Base, Cape Harrison Boardroom, Mezzanine Floor, (CCG) Base, 280 Southside Road, St. John's, NL A1E 0A3, on October 13, 2016 at 2:30PM to 4:30PM. The scope of the requirement outlined in the solicitation will be reviewed during the conference and questions will be answered. It is recommended that bidders who intend to submit a bid attend or send representation.

Bidders are requested to communicate with the CA before the conference to confirm attendance. Bidders should provide, in writing to the CA, the names of the person(s) who will be attending and a list of issues they wish to table no later than three (3) business days (excluding weekends and holidays) before the scheduled Conference.

Any clarifications or changes to the solicitation resulting from the Bidder's Conference will be included as an amendment to the solicitation. Bidders who do not attend will not be precluded from submitting a bid.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

Canada requests that Bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid 2 hard copies

Section II: Financial Bid 1 hard copy

Section III: Certifications 2 hard copies

Section IV: Additional Information 2 hard copies and 2 soft copies in Adobe PDF format on a CD.

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

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

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

The bidder should include within the bid submission package, a completed reference document entitled "Mandatory Requirements Reference Section", and referred to in Part 4 of this document, which will serve to indicate the bid reference, page number and paragraph number within the bid submission package, where the requirements stated within this specification are met.

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

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

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

Section I: Technical Bid

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

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment. The total amount of Applicable Taxes must be shown separately.

3.1.1 Exchange Rate Fluctuation

SACC Manual Clause C3011T (2013-11-06), Exchange Rate Fluctuation

3.1.2 SACC Manual Clauses

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Mandatory Requirements Reference Section:

CCGS Ann Harvey and CCGS George Pearkes – HVAC Systems Requirement

Statement of Requirement (SOR) no.	Mandatory Requirement	Compliant – Y/N	Bid reference / Page no./ Paragraph no.	Comments
Annex A - 1.1	Ability to supply systems			
Annex A - 1.4	OEM sales service			
Annex A - 1.6	Language and delivery requirements			
Annex A - 1.6	FSR capabilities			
Annex A - 2	Standards as per entire Section 2 of SOR			
Annex A - 3.2.1	Technical requirement			
Annex A - 3.2.2	Technical requirement			
Annex A - 3.2.3	Technical requirement			

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Statement of Requirement (SOR) no.	Mandatory Requirement	Compliant – Y/N	Bid reference / Page no./ Paragraph no.	Comments
Annex A - 3.2.4	Technical requirement			
Annex A - 3.2.5	Technical requirement			
Annex A - 3.2.6	Technical requirement			
Annex A - 3.2.7	Technical requirement			
Annex A - 3.2.8	Technical requirement			
Annex A - 3.2.9	Technical requirement			
Annex A - 3.2.10	Technical requirement			
Annex A - 3.2.11	Technical requirement			
Annex A - 3.2.12	Technical requirement			
Annex A - 3.2.13	Technical requirement			
Annex A - 3.2.14	Technical requirement			
Annex A - 3.2.15	Technical requirement			
Annex A - 3.2.16	Technical requirement			
Annex A - 3.2.17	Technical requirement			
Annex A - 3.2.18	Technical requirement			
Annex A - 3.2.19	Technical requirement			
Annex A - 3.2.20	Technical requirement			
Annex A - 4	Quality assurance			
Annex A - 5.1	Technical data and delivery date			
Annex A - 5.2	Spares			
Annex A - 5.3	Optional Spares			
Annex A - 5.4	List of spares			
Annex A - 5.5	Training			
Annex A - 5.6	Manuals			
Annex A - 5.7	Delivery			

Statement of Requirement (SOR) no.	Mandatory Requirement	Compliant – Y/N	Bid reference / Page no./ Paragraph no.	Comments
	The bidder shall supply a list of at least five (5) marine installations within the last ten (10) years with HVAC systems which consist of the same or very similar equipment as proposed for the CCGS Ann Harvey and CCGS George R. Pearkes.			
	The bidder shall supply one copy of the Manufacturer's published maintenance schedule for the equipment comprising the HVAC systems.			
	The bidder shall supply one copy of the Manufacturer's published sales brochure for the proposed equipment comprising the HVAC systems.			

4.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

4.2 Basis of Selection – Mandatory Technical Criteria

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

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by the Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a Bidder in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

In accordance with the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

PART 6 – RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the Contract.

6.2 Statement of Requirement

SACC Manual Clause B4008C (2014-06-26), Statement of Requirement

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

6.3 Standard Clauses and Conditions.

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

6.3.1 General Conditions

2010A (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

This revision is to revise (2016-04-04), General Conditions - Goods (Medium Complexity), and delete Sub-Article 2010A 09 (2014-09-25) Warranty, in its entirety and insert the following:

Sub-Clause SACC Manual 2010A 09 (2016-09-15) Warranty

1. Despite inspection and acceptance of the Work by or on behalf of Canada and without restricting any provisions of the Contract or any condition, warranty or provision imposed by law, the Contractor, if requested by Canada to do so, must replace, repair or correct, at its own option and expense any work that becomes defective or fails to conform to the requirements of the Contract, where applicable. The warranty period will be 12 months after delivery and acceptance of the Work and will remain in effect thereafter, from the date at which each HVAC system becomes operational. The operational date is anticipated to commence within eight (8) months of the date of delivery, or the length of the Contractor's or manufacturer's standard warranty period, whichever is longer. The warranty applies to any part of the Work replaced, repaired or corrected pursuant to subsection 1, for the greater of the warranty period remaining, including the extension.
2. Canada must pay the transportation cost associated with returning the Work or any part of the Work to the Contractor's plant for replacement, repair or making good, and the Contractor must pay the transportation cost associated with forwarding the replacement or returning the Work or part of the Work when rectified to the delivery point specified in the Contract or to another location as directed by Canada. If, in the opinion of Canada, it is not expedient to remove the Work from its location, the Contractor must carry out any necessary repair or making good of the Work at that location and will be reimbursed its reasonable travel and living expenses.
3. The warranty period is automatically extended by the duration of any period or periods where the Work is unavailable for use or cannot be used because of a defect or non-conformance during the original warranty period.
4. For the purpose of the installations, the various components may need to be separated and subsequently reassembled. If separation and reassembly is required, this practice shall not void the manufacturer's warranty.
5. Supplier must indicate if warranty requires Field Service Representative installation and commissioning.

6.4 Term of Contract

SACC Manual Clause A9009C (2008-12-12)

The Contractor grants to Canada the irrevocable option to extend the term of the Contract by up to 1 additional 1 year period under the same conditions. The Contractor agrees that, during the extended period of the Contract, it will be paid in accordance with the applicable provisions as set out in the Basis of Payment.

Canada may exercise this option at any time by sending a written notice to the Contractor at least 30 calendar days before the expiry date of the Contract. The option may only be exercised by the Contracting Authority, and will be evidenced for administrative purposes only, through a contract amendment.

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6.4.1 Period of the Contract

SACC Manual Clause A9022C (2007-05-25) Period of the Contract

The period of the Contract is from date of Contract to January 31, 2017 inclusive.

6.4.2 Delivery Date

All of the contract deliverables must be received on or before January 31, 2017.

6.4.3 Delivery Point

Incoterm FAS - Free alongside ship:

Delivery point of the HVAC systems will be at:

Canadian Coast Guard Base (CCG), located at 280 Southside Road, St. John's, NL A1E 0A3.

The Contractor must contact Canada and obtain its approval, before making any arrangements to have the two HVAC systems packaged and shipped to the aforementioned address. Canada will confirm at that time, the exact shipping details with the Contractor.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: François Richer
Title: Supply Specialist
Public Services and Procurement Canada
Acquisitions Branch
Directorate: Marine Systems
Address:
PDP III, 6C2-34,
11 Laurier Street,
Gatineau, Québec K1A 0S5
Telephone: 873-469-4752
Facsimile: 819-956-6648
E-mail address: francois.richer@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.

6.5.2 Technical Authority

The Technical Authority for the Contract is:

Name: Joseph Earles
Title: Project Officer National Vessel Life Extension Program
Organization: CCG_DFO
Address: Canadian Coast Guard Base
280 Southside Road,
St. John's, NL A1E 0A3
Telephone: 709 772 2433
Email : Joseph.Earles@dfo-mpo.gc.ca

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

6.5.3 Contractor's Representative

Name: TBD at Contract award
Telephone:
Facsimile:
E-mail:

6.6 Payment

6.6.1 Basis of Payment

6.6.1.1 Firm Price

6.6.1.2.1 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 the contract for a cost of \$ _____. Customs duties are included, and Applicable Taxes are extra.

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

6.6.2 Limitation of Price

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

6.6.3 Method of Payment - Multiple Payments

Canada will pay the Contractor upon completion and delivery of units 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.

6.7 Invoicing Instructions

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.

6.7.1 Invoices must be distributed as follows:

- a. one (1) copy must be forwarded to the following email address for certification and payment:
DFOinvoicing-MPOfacturation@DFO-MPO.GC.CA
ATTN: Vicki Robson
- b. one (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.
- c. one (1) copy must be forwarded to the Technical Authority identified under the section entitled "Authorities" of the Contract.

6.8 Certifications and Additional Information

6.8.1 Compliance

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

6.9 Applicable Laws

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

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2016-04-04) Goods (Medium Complexity);
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Basis of Payment;
- (e) Annex C, the Contractor's bid dated _____ as clarified on _____ " **or** ", as amended on _____.

6.11 Defence Contract

SACC Manual clause A9006C (2012-07-16) Defence Contract

6.12 Insurance – No Specific Requirement

SACC Manual clause G1005C (2016-01-28) Insurance – No Specific Requirement

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ANNEX A – STATEMENT OF REQUIREMENT

Statement of Requirements for Supply of New Heating Ventilation and Air Conditioning Systems and associated spare parts for Canadian Coast Guard Ship Ann Harvey and Canadian Coast Guard Ship George R. Pearkes

August 12, 2016

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Part 1: Scope:

- 1.1** The Coast Guard has a requirement to replace the two existing Norris Warming Accommodation heating ventilation and air conditioning (HVAC) systems currently fitted on the Canadian Coast Guard Ship (CCGS) Ann Harvey and CCGS George R. Pearkes. The Contractor must supply two complete systems each consisting of two (2) plants (port and starboard). Each plant is comprised of a two (2) tiered installation. The lower tier supports refrigeration machinery and associated equipment. The upper tier supports the air handling machinery and associated equipment. The port and starboard HVAC controls are mounted completely independent of each other. For the purpose of clarity all references to a single HVAC system are understood to be a vessel system comprised of both port and starboard plants including controls and ancillary equipment.
- 1.2** All references to Class approval within this specification are defined as approval by one of the Recognized Organizations (RO) approved by Transport Canada within the Delegated Statutory Inspection Program (DSIP).
- 1.3** Proposed HVAC systems must currently be in marine service and must have Original Equipment Manufacturer (OEM) representation in Canada. The manufacturer's appointed service organization must hold an inventory of essential spares and be capable of providing qualified field service representatives (FSRs), complete component documentation support, and the capability to provide technical support for standard overhaul as well as repair. The service organization must be capable of delivering these services and parts to St. John's, NL within 48 hours of notification by the CCG.
- 1.4** Specific delivery locations and language requirements of any additional units availed of by contractual options will be determined by each particular purchase at the time of an approved procurement. Locations for potential subsequent purchases include Quebec City' QC and Victoria BC.
- 1.5** The Contractor must be capable of supervising the installation and commissioning of these HVAC systems on an as and when required basis, however note that the intent is to supply only for the purposes of this SOR.
- 1.6** The Contractor must be capable of providing training for ships personnel subsequent to the commissioning of these HVAC systems, on an as, where and when required basis., however note that the intent is to supply only for the purposes of this SOR. Each course must be for up to 12 students for 4 hours. These courses must be conducted by the Contractor's technical representative and must provide as a minimum :
- 1.6.1.** Overview of HVAC system.
 - 1.6.2.** Overview of HVAC system functionality, capability and modes of operation.
 - 1.6.3.** Routine maintenance.
 - 1.6.4.** Trouble shooting methods.

Part 2: Standards

- 2.1** The Contractor must comply with the following standards when carrying out the work.
Classification Society Rules and Regulations for the Classification of Ships:
- 2.1.1** ISO 7547
 - 2.1.2** Federal Halocarbon Regulations 2003

- 2.1.3** MOSH SOR 2010-120
- 2.1.4** TCMS Ship Safety Electrical Standard TP-127e
- 2.1.5** IEEE 45
- 2.1.6** Canada Shipping Act, 2001 (CSA 2001).
- 2.1.7** Canada Shipping Act Air Pollution Regulations.
- 2.1.8** Vessel Pollution and Dangerous Chemicals Regulations.
- 2.1.9** IMO International Convention for the Prevention of Pollution from Ships (MARPOL).
- 2.1.10** Marine Machinery Regulations.
- 2.1.11** IP Code, International Protection Marking, IEC standard 60529.
- 2.1.12** International Electrotechnical Commission.

2.2 Current edition of the above documents must be used at time of bid solicitation.

Part 3: Technical Description:

3.1 Overview of existing systems.

The existing systems are comprised of two Norris Warming plants (port and starboard) located in a HVAC room in each of the vessels.

The plants handle air for respective sides of accommodation ducting for the ship. Each plant is a two tiered frame mounted system consisting of refrigeration machinery on the lower level and air handling equipment on the upper level. The controls are mounted separately.

3.2 Requirements for New system

- 3.2.1.** The accommodation HVAC systems must be engineered, designed and built by the contractor.
- 3.2.2.** The accommodation HVAC systems must be complete including: filters, steam coils, blowers, preheaters, cooling coils, reheaters, controls, drains, mounts, sealing arrangements, metering, labelling, air handling units and fan/motor assemblies all sized and rated for satisfactory operation and performance. The new plenums must be internally insulated with approved Closed Cell Insulation with intrinsic anti-microbial agent. Plenum linings must be K-flex or equivalent.
- 3.2.3.** The assembled package of the accommodation HVAC systems must fit within the dimensional areas described below:
 - 3.2.3.1** CCGS George R. Pearkes dimensions; length athwartships: 98 inches, Width, fore and aft: 54 inches, Height: 80 inches.
 - 3.2.3.2**
 - 3.2.3.3** CCGS Ann Harvey dimensions; length athwartships: 100 inches, Width, fore and aft: 56 inches, Height: 82 inches.
- 3.2.4.** Controls including housings for Programmable Logic Controller may be mounted separately in the fan room in an easily accessible location. Alarm and monitoring must be provided for the following:
 - 3.2.4.1** Cooling water in.
 - 3.2.4.2** Cooling water out.
 - 3.2.4.3** Air temperature in.
 - 3.2.4.4** Air temperature out.
 - 3.2.4.5** Compressor suction pressure.
 - 3.2.4.6** Compressor discharge pressure.

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- 3.2.4.7** Compressor oil pressure.
- 3.2.4.8** Compressor trip.
- 3.2.4.9** Blower trip.
- 3.2.4.10** Supply voltage.
- 3.2.4.11** Crankcase heater.
- 3.2.5.** The HVAC systems must be designed to function properly without buildup of pressure from weather and other normally closed doors, hatches and similar accesses are closed.
- 3.2.6.** Noise created or transmitted by systems or equipment described herein must be considered during the design stage. All blowers, motors and compressors must be installed on Class approved resilient mounts.
- 3.2.7.** Air intakes and outlets must be of the self-draining Class approved type.
- 3.2.8.** Design parameters: Winter:-40°C to 21°C with 185km/hr wind, 30% relative humidity. Summer: 35°C at 70% relative humidity to 27 °C at 50 % relative humidity. The system must be capable of maintaining the above conditions in accommodation areas when supplied with a mixture of 60% recirculated air and 40% fresh air.
- 3.2.9.** The accommodation HVAC systems must be capable of utilizing existing duct work for inlet, outlet and return air without causing any interferences with surrounding passageways in the HVAC room.
- 3.2.10.** The accommodation HVAC system must be capable of utilizing existing refrigerant gas (DuPont ISCEON MO99 a.k.a. R438A) or equivalent.
- 3.2.11.** The accommodation HVAC system must be capable of pumping down and storing the refrigerant gas.
- 3.2.12.** Blowers must be high efficiency variable speed Class approved for marine operation and directly coupled to the driving motor.
- 3.2.13.** Steam heating coils must be sized to preheat the air to 21°C. The steam work pressure supplied to the heaters is 100 psi. The coil must be made of seamless copper tube and die formed self-spacing full collared copper plate fins. The coil casing must be of galvanized steel construction. The off coil temperature must be controlled by a pneumatically or electrically operated control valve, by -pass valves must be fitted around the control valve. A manual condensate drain valve at the lowest point is required.
- 3.2.14.** The filter housings must be constructed of galvanized heavy gauge steel.
- 3.2.15.** Filters must be cleanable Class approved type.
- 3.2.16.** Air handling units must be heavy gauge galvanized steel with bracing. All internals must be housed in a galvanized steel frame and interconnected with a rod and linkage to thermostatically controlled pneumatic actuators. The dampers must be of heavy gauge galvanized steel with corrosion resistant axles rotating in self-lubricating nylon bushings. The section must be arranged for parallel blade operation to direct recirculated air and outdoor air into a single blended air stream before it reaches the coil face.
- 3.2.17.** The accommodation HVAC systems must be capable of integrating the existing Nortec humidifiers.

- 3.2.18.** The accommodation HVAC systems must match the capacities of the existing system. See attached spec sheet.
- 3.2.19.** Condensing units must be Class approved type packages consisting of compressor, water cooled condenser, controls and fresh water regulating valve. The condensers must be fitted with a refrigerant pressure relief valve.
- 3.2.20.** The HVAC systems match the existing electrical power supplies. The power available is 600VAC, 60 Hertz, 3 phase 70 Amps per plant (i.e. blower motor and compressor motor and controls).

Part 4. Quality Assurance and Testing

- 4.1** The HVAC systems must be tested in accordance with Classification and Regulatory requirements. Factory Acceptance Testing procedures must be carried out at the manufacturer's facility.
 - 4.1.1.** All temperatures and pressures must be monitored and recorded during and after the load tests and recorded every 15 minutes during the load tests. The final reading must be taken 15 minutes after completion of the tests. All gauge readings must be verified and all shutdowns and alarms must be demonstrated. The temperatures and or pressures at which the alarm sounds and or when shutdown occurs are to be recorded. At an agreed time by both parties, the Contractor must allow Canada to witness the verification, which is comprised of: observe, record and compare with manufacturer's settings/standards. Copies of all above-noted test data must be provided to the Technical Authority (TA) prior to acceptance. The documentation must be supplied in two (2) hardcopies and two (2) electronic copies in Adobe PDF documents.
- 4.2** After the above tests are complete and have been accepted by the TA, the HVAC systems must be crated, stored and prepared for delivery as per manufacturer's recommendations to the location stated for each purchase.
- 4.3** A certificate of acceptance must be signed by the Contractor and sent to the TA for his signature or his delegate in its absence. Upon receipt of the certificate, the TA will review it and if deemed acceptable, the TA or its delegate will sign it and return a copy to the Contractor.

Part 5: Deliverables

- 5.1** The Contractor must supply two complete systems each consisting of two (2) plants (port and starboard). The contractor must quote the unit cost for two more optional HVAC systems.
- 5.2** All deliverables stated in 5.1 to 5.3 must be delivered by January 31, 2017. The Contractor must deliver the following technical data for the HVAC systems; the documentation must be supplied in two (2) hardcopies and two (2) electronic copies in Adobe PDF documents.
 - 5.2.1.** Material List.
 - 5.2.2.** Operation and Service Manual.
 - 5.2.3.** Equipment drawings.
 - 5.2.4.** Mounting dimensions.
 - 5.2.5.** Electrical Wiring Diagrams.
 - 5.2.6.** Weights of the equipment and total of each complete set.
 - 5.2.7.** Original and two (2) copies of Class Approval certificates.
 - 5.2.8.** Installation procedures manual.

- 5.3** The contractor must provide all mechanical and electrical spares required to perform two (2) years of the recommended regularly scheduled maintenance. The required spares must be OEM parts as published in the manufacturer's maintenance manual.
- 5.4** The contractor must provide as an option, the following spares:
- 5.3.1.** Spare blower motor.
 - 5.3.2.** Spare heating coil.
 - 5.3.3.** Spare compressor.
- 5.5** The contractor is to provide a list of manufacturer recommended spares for a fifteen (15) year lifespan as published in the manufacturer's maintenance manual. The list must include part numbers, lead-time to order, retail prices at time of bid submission with a list of Canadian distributors and service centres. The documentation must be supplied in two (2) hardcopies and two (2) electronic copies in Adobe PDF documents.
- 5.6** The contractor must provide two (2) paper copies and two (2) electronic copies per HVAC system of the manufacturer's operation, service and repair manuals (including maintenance schedules) and parts manuals. Electronic documents must be supplied within sixty (60) days of award of contract and be Adobe PDF. Electronic files must have a resolution no less than 300 dpi, be manufacturer approved and retain the colours of the original documents.
- 5.7** Delivery of the new HVAC systems must be by Jan.31, 2017 at the contractor's storage facility and subject to Article 6.4.3 of the Contract. Additional optional locations within Canada will be determined at a later date and will be dependent on each specific CCG requirement.

ANNEX B – BASIS OF PAYMENT

B1 Firm Price

B1.1 HVAC Systems complete as per Annex A \$ _____ X 2

B1.2 Shipping of 2 HVAC Systems complete to:
Incoterm FAS - Free alongside ship":
Delivery point of the HVAC systems will be at:
Canadian Coast Guard Base (CCG), located at
280 Southside Road, St. John's, NL A1E 0A3". \$ _____ X 2

B2 Optional HVAC Systems and as per Annex A

B2.1 HVAC Systems complete as per Annex A \$ _____ X 1

B2.2 HVAC Systems complete as per Annex A \$ _____ X 1

B3 Optional Spares:

B3.1 Blower motor as per Annex A \$ _____ X 1

B3.2 Heating Coil as per Annex A \$ _____ X 1

B3.3 Compressor as per Annex A \$ _____ X 1

Note: The above Firm and Optional pricing found at B1, B2 and B3 will
be evaluated for the purpose of awarding this contract.

B4 Field Service Representative (FSR) as per Annex A

Note: The below FSR rates will not be evaluated for the purpose of awarding this contract.

B4.1 FSR Rates as per Annex A – \$ _____ X 1
estimated rates for 18 months from Contract award

B5 Total of all Applicable taxes for line B1+B2+B3 only \$ _____

B6 Total of firm and optional prices including Taxes B1 + B2 +B3+B5 \$ _____

Solicitation No. - N° de l'invitation
F7049-160088/A
Client Ref. No. - N° de réf. du client
F7049-160088

Amd. No. - N° de la modif.
File No. - N° du dossier
050ml.F7049-160088

Buyer ID - Id de l'acheteur
050ML
CCC No./N° CCC - FMS No./N° VME

ANNEX C – CONTRACTOR'S BID

(To be inserted at Contract Award.)