



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 a Standing Offer
Demande d'offre à commandes**

National Individual Standing Offer (NISO)

Offre à commandes individuelle nationale (OCIN)

Canada, as represented by the Minister of Public Works and
Government Services Canada, hereby requests a Standing Offer
on behalf of the Identified Users herein.

Le Canada, représenté par le ministre des Travaux Publics et
Services Gouvernementaux Canada, autorise par la présente,
une offre à commandes au nom des utilisateurs identifiés
énumérés ci-après.

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 MARINE VESSEL FUEL MANAGEMENT SYS	
Solicitation No. - N° de l'invitation F7044-150030/A	Date 2015-11-06
Client Reference No. - N° de référence du client F7044-150030	GETS Ref. No. - N° de réf. de SEAG PW-\$\$ML-025-25455
File No. - N° de dossier 025ml.F7044-150030	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-12-17	
Time Zone Fuseau horaire Eastern Standard Time EST	
Delivery Required - Livraison exigée See Herein	
Address Enquiries to: - Adresser toutes questions à: Girard, Luc J.	Buyer Id - Id de l'acheteur 025ml
Telephone No. - N° de téléphone (819)956-0652 ()	FAX No. - N° de FAX (819)956-0897
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF FISHERIES AND OCEANS INTEGRATED TECHNICAL SERVICES 200 KENT ST STN. 7W118C OTTAWA Ontario K1A0E6 Canada	
Security - Sécurité This request for a Standing Offer does not include provisions for security. Cette Demande d'offre à commandes ne comprend pas des dispositions en matière de sécurité.	

Instructions: See Herein

Instructions: Voir aux présentes

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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Buyer ID - Id de l'acheteur
025ml
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PART 1 - GENERAL INFORMATION

1.1 Introduction

The Request for Standing Offers (RFSO) is divided into six parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Offeror Instructions: provides the instructions applicable to the clauses and conditions of the RFSO;
- Part 3 Offer Preparation Instructions: provides Offerors with instructions on how to prepare their offer to address the evaluation criteria specified;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria which must be addressed in the offer, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 6A, Standing Offer, and 6B, Resulting Contract Clauses:
 - 6A, includes the Standing Offer containing the offer from the Offeror and the applicable clauses and conditions;
 - 6B, includes the clauses and conditions which will apply to any contract resulting from a call-up made pursuant to the Standing Offer.

The Annexes include the Statement of Work, the Basis of Payment, the Mandatory Technical Criteria Requirements, ' the Federal Contractors Program for Employment Equity – Certification, the Bid Price Table and any other annexes.

1.2 Summary

This requirement for the Department of Fisheries and Oceans Canada (Canadian Coast Guard) is to procure Marine Fuel Management (MFM) systems on an 'as-and-when' required basis, for up-to thirty four (34) ships comprised of one hundred and sixty six (166) engines and sixty three (63) Full Bridge Strain Gauges. The initial Standing Offer period is for one (1) year with option to extend for one (1) year with delivery to multiple locations across Canada excluding Comprehensive Land Claim Agreements (CLCA) locations.

"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)."

"The Federal Contractors Program (FCP) for employment equity applies to this procurement; see Part 5 - Certifications, Part 6A -Standing Offer, and Part 6B - Resulting Contract Clauses and the annex titled [Federal Contractors Program for Employment Equity - Certification.](#)"

1.3 Debriefings

Offerors may request a debriefing on the results of the request for standing offers process. Offerors should make the request to the Standing Offer Authority within 15 working days of receipt of the results of the request for standing offers process. The debriefing may be in writing, by telephone or in person.

PART 2 - OFFEROR INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the Request for Standing Offers (RFSO) 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.

Offerors who submit an offer agree to be bound by the instructions, clauses and conditions of the RFSO and accept the clauses and conditions of the Standing Offer and resulting contract(s).

The [2006](#) (2015-07-03) Standard Instructions - Request for Standing Offers - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the RFSO.

2.2 Submission of Offers

Offers 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 Request for Standing Offers.

2.2.1 Condition of Material – Bid

B1000T (2014-06-26), Condition of Material – Bid

2.3 Enquiries - Request for Standing Offers

All enquiries must be submitted in writing to the Standing Offer Authority no later than seven (7) calendar days before the Request for Standing Offers (RFSO) closing date. Enquiries received after that time may not be answered.

Offerors should reference as accurately as possible the numbered item of the RFSO to which the enquiry relates. Care should be taken by Offerors 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 Offerors do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Offerors. Enquiries not submitted in a form that can be distributed to all Offerors may not be answered by Canada.

2.4 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in Ontario.

Offerors may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their offer, 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 Offerors.

PART 3 - OFFER PREPARATION INSTRUCTIONS

3.1. Offer Preparation Instructions

Canada requests that offerors provide their offer in separately bound sections as follows:

Section I: Technical Offer, three (3) hard copies and one (1) soft copy on USB drive

Section II: Financial Offer, one (1) hard copy

Section III: Certifications, one (1) hard copy

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy (labelled #1, if applicable) will have priority over the wording of the soft copy.

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

Canada requests that Offerors follow the format instructions described below in the preparation of their offer.

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to that of the Request for Standing Offers.

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, Offerors 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 Offer

In their technical offer, Offerors must explain and demonstrate how they propose to meet the requirements in accordance with Annex "C" Mandatory Technical Criteria Requirements and how they will carry out the Work in accordance with Annex "A" Statement of Work (SOW).

Section II: Financial Offer

Offerors must submit their financial offer in accordance with Annex "E", Bid Price Table". The total amount of Applicable Taxes must be shown separately.

3.1.2 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Offerors must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Offers will be assessed in accordance with the entire requirement of the Request for Standing Offers including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the offers.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Offerors must comply with all the requirements of the Request for Standing Offer and must demonstrate, substantiate and meet all mandatory criteria listed in Annex "C" Mandatory Technical Evaluation Criteria to be declared responsive.

4.1.2 Financial Evaluation

An Offeror must submit a price for each item listed in Annex "E" Bid Price Table. Failure to provide a price for each item listed will render the bid non-responsive.

4.1.2.1 Evaluation of Price

The price of the offer will be evaluated in Canadian dollars, Applicable Taxes excluded, Delivered Duty Paid (DDP) to the base location of each ship as indicated in Appendix 1 of Annex "A", Canadian custom duties and excise taxes included.

4.2 Basis of Selection – Mandatory Technical Criteria only

An offer must comply with the requirements of the Request for Standing Offer and meet all mandatory technical evaluation criteria to be declared responsive. The responsive offer with the lowest evaluated price will be recommended for issuance of a standing offer.

Evaluated Price = As per Annex "E" Bid Price Table, **All Sections Grand Total Evaluated price**

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

Offerors must provide the required certifications and additional information to be issued a standing offer.

The certifications provided by Offerors to Canada are subject to verification by Canada at all times. Canada will declare an offer non-responsive, will have the right to set-aside a standing offer, or will declare a contractor in default if any certification made by the Offeror is found to be untrue whether made knowingly or unknowingly during the offer evaluation period, during the Standing Offer period, or during the contract period.

The Standing Offer Authority will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Standing Offer Authority will render the offer non-responsive, result in the setting aside of the Standing Offer or constitute a default under the Contract.

5.1 Certifications Required with the Offer

Offerors must submit the following duly completed certifications as part of their offer.

5.1.1 Declaration of Convicted Offences

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Offeror must provide with its offer, a completed [Declaration Form](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html>), to be given further consideration in the procurement process.

5.2 Certifications Precedent to the Issuance of a Standing Offer and Additional Information

The certifications and additional information listed below should be submitted with the offer, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Standing Offer Authority will inform the Offeror 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 offer non-responsive.

5.2.1 Integrity Provisions – List of Names

Offerors who are incorporated, including those submitting offers as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Offeror.

Offerors submitting offers as sole proprietorship, as well as those submitting offers as a joint venture, must provide the name of the owner(s).

Offerors submitting offers as societies, firms or partnerships do not need to provide lists of names.

5.2.2 Federal Contractors Program for Employment Equity - Standing Offer Certification

By submitting an offer, the Offeror certifies that the Offeror, and any of the Offeror's members if the Offeror is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list (http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) available from [Employment and Social Development Canada-Labour's](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml) website.

Canada will have the right to declare an offer non-responsive, or to set-aside a Standing Offer, if the Offeror, or any member of the Offeror if the Offeror is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list at the time of issuing of a Standing Offer or during the period of the Standing Offer.

Canada will also have the right to terminate the Call-up for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list during the period of the Contract.

The Offeror must provide the Standing Offer Authority with a completed annex [Federal Contractors Program for Employment Equity - Certification](#), before the issuance of a Standing Offer. If the Offeror is a Joint Venture, the Offeror must provide the Standing Offer Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

PART 6 - STANDING OFFER AND RESULTING CONTRACT CLAUSES

A. STANDING OFFER

6.1 Offer

6.1.1 The Offeror offers to fulfill the requirement in accordance with the Statement of Work at Annex "A".

This requirement for the Department of Fisheries and Oceans Canada (Canadian Coast Guard) is to procure Marine Fuel Management (MFM) systems on an 'as-and-when' required basis, for up-to thirty four (34) ships comprised of one hundred and sixty six (166) engines and sixty three (63) Full Bridge Strain Gauges. The initial Standing Offer period is for one (1) year, with option to extend for one (1) year and with delivery to multiple locations across Canada excluding Comprehensive Land Claim Agreements (CLCA) locations.

6.2 Security Requirements

6.2.1 There is no security requirement applicable to this Standing Offer.

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Standing Offer and resulting contract(s) 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

[2005](#) (2015-09-03) General Conditions - Standing Offers - Goods or Services, apply to and form part of the Standing Offer.

6.4 Term of Standing Offer

6.4.1 Period of the Standing Offer

The period for making call-ups against the Standing Offer is from Standing Offer Award Date to one (1) year after Standing Offer Award date.

6.4.2 Extension of Standing Offer

If the Standing Offer is authorized for use beyond the initial period, the Offeror offers to extend its offer for one (1) additional one (1) year period, under the same conditions and at the rates or prices specified in the Standing Offer, or at the rates or prices calculated in accordance with the formula specified in the Standing Offer.

The Offeror will be advised of the decision to authorize the use of the Standing Offer for an extended period by the Standing Offer Authority thirty (30) days before the expiry date of the Standing Offer. A revision to the Standing Offer will be issued by the Standing Offer Authority.

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Buyer ID - Id de l'acheteur
025ml
CCC No./N° CCC - FMS No./N° VME

6.5. Authorities

6.5.1 Standing Offer Authority

The Standing Offer Authority is:

Luc Girard
Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Marine Systems Directorate
Place du Portage, Phase III, 6C2
11, rue Laurier, Gatineau, QC
K1A 0S5
Telephone: 819-956-0652
Facsimile: 819-956-0897
E-mail address: Luc.Girard@pwgsc.gc.ca

The Standing Offer Authority is responsible for the establishment of the Standing Offer, its administration and its revision, if applicable. Upon the making of a call-up, as Contracting Authority, he is responsible for any contractual issues relating to individual call-ups made against the Standing Offer by any Identified User.

6.5.2 Project Authority

The Project Authority for the Standing Offer is identified in the call-up against the Standing Offer.

The Project Authority is the representative of the department or agency for whom the Work will be carried out pursuant to a call-up against the Standing Offer and is responsible for all the technical content of the Work under the resulting Contract.

6.5.3 Offeror's Representative

(Insert at Standing Offer Award)

Name: _____
Title: _____
Address: _____
Tel: _____
Email: _____

6.6 Identified Users

The Identified User authorized to make call-ups against the Standing Offer is: Fisheries and Oceans Canada, Canadian Coast Guard.

6.7 Call-up Procedures

Identified users are to issue a Call-up based on the price(s) and item numbers listed in Annex "B" Basis of Payment.

6.8 Call-up Instrument

The Work will be authorized or confirmed by the Identified User(s) using form PWGSC-TPSGC 942, Call-up Against a Standing Offer or an equivalent form.

6.9 Limitation of Call-ups

Individual call-ups against the Standing Offer must not exceed \$40,000.00 (Applicable Taxes included).

Call-ups exceeding \$40,000.00 must be approved and signed by the Contracting Authority.

6.10 Financial Limitation

The total cost to Canada resulting from call ups against the Standing Offer must not exceed the sum of ***to be inserted at Standing Offer Award*** (*Applicable Taxes included*) unless otherwise authorized in writing by the Standing Offer Authority. The Offeror must not perform any work or services or supply any articles in response to call ups which would cause the total cost to Canada to exceed the said sum, unless an increase is so authorized.

The Offeror must notify the Standing Offer Authority as to the adequacy of this sum when 75 percent of this amount has been committed, or three (3) months before the expiry date of the Standing Offer, whichever comes first. However, if at any time, the Offeror considers that the said sum may be exceeded, the Offeror must promptly notify the Standing Offer Authority.

6.11 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 call up against the Standing Offer, including any annexes;
- b) the articles of the Standing Offer;
- c) the general conditions 2005 (2015-09-03), General Conditions - Standing Offers - Goods or Services;
- d) the supplemental general conditions 4003 (2010-08-16), Licensed Software;
- e) the general conditions 2010A (2015-09-03), General Conditions Goods (Medium Complexity
- f) Annex "A", Statement of Work;
- g) Annex "B", Basis of Payment; and
- h) the Offeror's offer dated _____ (*insert date of offer*).

6.12 Certifications

6.12.1 Compliance

The continuous compliance with the certifications provided by the Offeror with its offer and the ongoing cooperation in providing additional information are conditions of issuance of the Standing Offer (SO). Certifications are subject to verification by Canada during the entire period of the SO and of any resulting contract that would continue beyond the period of the SO. If the Offeror does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Offeror in its offer is untrue, whether made knowingly or unknowingly, Canada has the right to terminate any resulting contract for default and set aside the Standing Offer.

6.12.2 Federal Contractors Program for Employment Equity - Setting aside

The Offeror understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Offeror and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Standing Offer. If the AIEE becomes invalid, the name of the Offeror will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC may result in the setting aside of the Standing Offer.

6.13 Applicable Laws

The Standing Offer and any contract resulting from the Standing Offer must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. (*Insert the name of the province or territory as specified by the Offeror in its offer, if applicable*).

B. RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from a call-up against the Standing Offer.

6.1 Statement of Work

The Contractor must perform the Work described in the call-up against the Standing Offer.

6.2 Standard Clauses and Conditions

6.2.1 General Conditions

2010A (2015-09-03), General Conditions - Goods (Medium Complexity) apply to and form part of the Contract.

Article 2010A 09 (2014-09-25) Warranty, of the 2010A 2015-09-03 General Conditions is deleted in its entirety and replaced with the following;

1. Despite inspection and acceptance of the Marine Fuel Management (MFM) system by or on behalf of Canada and without restricting any other provision of the Contract or any condition, warranty or provision imposed by law, the Contractor warrants that, during the warranty period, each Marine Fuel System, including without limitation, all parts, software and fittings, will be free from all defects of design, material, or workmanship and will conform to the requirements of the contract. If requested by Canada to do so, the Contractor 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.
2. The warranty period for each MFM system begins on the date of installation/set-to-work, which can be no later than 365 days after the date of delivery. The warranty period is 365 days from the date of installation/set-to-work for each MFM system.
3. The warranty applies to MFM systems stored for a period of up to 365 days after delivery and acceptance provided the systems are stored in an environment protected from outdoor weather. The warranty period for each MFM system will end if the MFM system is not deployed within 365 days after delivery and acceptance.
4. Canada must pay the transportation cost associated with returning the MFM system or any part of the system 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 system or part of the MFM system 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 MFM system or any part from its location, the Contractor must carry out any necessary repair or making good of the MFM system at that location and will be reimbursed its reasonable travel and living expenses.

5. The warranty period is automatically extended by the duration of any period or periods where the MFM system is unavailable for use or cannot be used because of a defect or non-conformance during the original warranty period. The warranty applies to any part of the MFM system replaced, repaired or corrected pursuant to subsection 1, for the greater of:
- a. the warranty period remaining, including the extension, or
 - b. 90 days or such other period as may be specified for that purpose by agreement between the Parties.

6.2.2 Supplemental General Conditions – Licensed Software

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

6.3 Term of Contract

6.3.1 Delivery Date

Delivery must be made within 60 calendar days from receipt of a call-up against the Standing Offer.

6.4 Payment

6.4.1 Basis of Payment – Firm Prices and Firm Per Diem Rates

In consideration of the Contractor satisfactorily completing all of its obligations under the call-up against the Standing Offer, the Contractor will be paid the firm prices and firm per diem rates as specified in Annex "B" Basis of Payment. Customs duties are included and Applicable Taxes are extra.

Once arrived at the destination city, as indicated in Annex "B" Basis of Payment, the contractor will be reimbursed **for local travel and living expenses only** that are reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the [National Joint Council Travel Directive](#) and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

All travel must have the prior authorization of the Project Authority.

All payments are subject to government audit.

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.

6.4.2 Limitation of Price

SACC Manual clause [C6000C](#) (2011-05-16), Limitation of Price

6.4.3 Multiple Payments

SACC Manual clause [H1001C](#) (2008-05-12), Multiple Payments

6.5 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.

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 Standing Offer Authority identified under the section entitled "Authorities" of the Contract.

6.6 Insurance

SACC *Manual* clause [G1005C](#) (2008-05-12) Insurance

6.7 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "[FCP Limited Eligibility to Bid](#)" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

6.8 Shipping Instructions - Delivered Duty Paid (DDP) Incoterms 2000

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

Incoterms 2000 "DDP Delivered Duty Paid" to the individual ship base destinations listed in Annex "A" Statement of Work.

ANNEX "A"

STATEMENT OF WORK

1.0 GENERAL

1.1 PURPOSE

The Canadian Coast Guard has a requirement to procure Marine Fuel Management (MFM) systems for its ships across Canada in order to measure, monitor and report fuel consumption with the goal to improve fuel management and fleet operational efficiency.

1.2 REFERENCE DOCUMENTS

The attached tables outline ship specifics for the supply of MFM systems:

- 1.2.1 Table 1: the name and location of each ship with number and type of engines installed and number and sizes of propulsion shafts.
- 1.2.2 Table 2: propulsion engine makes and models, numbers that are installed and specifics.
- 1.2.3 Table 3: ship service generator engine makes and models, numbers that are installed and specifics.

1.3 GOVERNMENT FURNISHED EQUIPMENT AND SERVICES

Canada will supply and install all necessary cabling to interconnect the Offeror supplied equipment, provide the necessary electric power receptacle as specified by the Offeror and install all equipment supplied as confirmed by the Offeror and accepted by the CCG during the vessel class survey in order to complete the functional system.

1.4 ENVIRONMENTAL REQUIREMENTS

Unless specified otherwise, all supplied components and materials provided by the Offeror shall be adequate to meet the minimum service conditions as outlined in section 1.5.1 of IEEE 45:2002 – Recommended Practice for Electrical Installations on Shipboard. Basic requirements of this standard are as follows;

- 1.4.1 Exposure to moisture-laden and salt-laden atmosphere, weather, sun, high wind velocities, and ice;
- 1.4.2 Ambient temperature of up to 50 °C;
- 1.4.3 Relative humidity of up to 95%;
- 1.4.4 Roll angles up to 15° (static) and 22.5° (dynamic);
- 1.4.5 Pitch angles up to 5° (static) and 7.5° (dynamic); and
- 1.4.6 Vibration frequency range of 5 – 50 Hz with velocity amplitude of 20 mm/s or peak acceleration of +/- 1.0g with duration of 5 – 10 s.

1.5 ELECTRICAL REQUIREMENTS

The Offeror shall provide a vessel Marine Fuel Management system that is capable of operating from an existing electrical supply on each vessel. Available supplies are 110/220/440V-60Hz.

2.0 REQUIREMENT

- 2.1 The contractor shall provide goods and services on an as-and-when requested basis as specified in the call-up against the Standing Offer. The MFM system shall be of a proven established marine design, operationally functional on ships as per the environmental specifications in article 1.4 of SOW. Each proposed MFM system shall be configured for each specific vessel and therefore capable of simultaneously handling, as applicable per vessel, up-to six (6) propulsion engines, up-to four (4) ship service generator engines and up-to three (3) propulsion shafting torsion measurement gauges.
- 2.2 The Offeror shall provide a Marine Fuel Management system and the proposed fuel meters that are approved by a recognized member of the International Association of Classification Societies (IACS) and the Delegated Statutory Inspection Program (DSIP) as outlined by Transport Canada.
- 2.3 For each finalized installation, the Offeror shall provide; three (3) copies of all type approval certificates of an IACS approved Classification Society that is accepted by Transport Canada Marine Safety.
- 2.4 The proposed MFM system shall use and integrate with the current standard GPS system used by the Canadian Coast Guard ships. All CCG vessel GPS are compliant with a NMEA 0183 Version 2.x and/or 3.x. Sentences are available in RS232 or RS422 at 4800 baud, 1 start bit, 1 stop bit and no parity.
- 2.5 The proposed MFM system shall be a new, standalone installation for each ship and the main processing unit shall be the same core processing unit for all vessels. The system shall be able to provide the data, run reports, export and display the data on the two (2) remote workstations.
- 2.6 The Offeror shall provide an FSR for installation monitoring, final system connection, system set-to-work and configuration.
- 2.7 The Offeror shall provide an FSR for Sea Trials, final system configuration, testing, validation, system set-to-work and final set-to-work, training and configuration.
- 2.8 The Offeror shall provide an FSR for survey of vessel by class or vessel, as directed by CCG.

3. SERVICE AND SUPPORT REQUIREMENT

The Offeror shall provide service and parts within 48 hours of the ship's base location and shall include the calibration of the fuel meters.

4. OPERATIONAL REQUIREMENTS

4.1 The MFM system provided by the Offeror shall incorporate four (4) primary component systems:

- 4.1.1 Main Propulsion Engines Fuel Consumption Measurements;
- 4.1.2 Ship Service Generator Engines Fuel Consumption Measurements;
- 4.1.3 Propulsion Shafting Torsional Measurements; and
- 4.1.4 Remote Monitoring, Display, Data Logging and Reporting.

4.2 MAIN PROPULSION ENGINES AND SHIP SERVICE GENERATOR ENGINES FUEL CONSUMPTION MEASUREMENT REQUIREMENTS

- 4.2.1 Table 2 shows vessel main propulsion engine makes and models, number fitted, ratings, theoretical fuel consumption and pipe sizes.
- 4.2.2 Table 3 shows vessel ship service generator engine makes and models, number fitted, ratings, theoretical fuel consumption and pipe sizes.
- 4.2.3 The Offeror shall supply flow meters for the measurement of fuel supply to each engine and the measurement of returned fuel in order to provide net fuel consumption per engine, complete with bypass and isolation arrangements. The arrangement shall consist of a fitted strainer before the meter and all required valves for isolation. The assembly shall have a flange arrangement for inserting into existing fuel system flanging for each engine. Flow meter sizing shall be compatible with existing piping systems and fuel flow.
- 4.2.4 The flow meters and bypass shall be compatible for use with Marine Gas Oil (MGO) with a viscosity of 1.3 to 3.6 cSt @ 40°C and specific gravity of 0.82 to 0.88 @ 20°C.
- 4.2.5 Accuracy of the flow meters shall be +/- 0.1% within the range 25% to 100% of the designed flow rate.
- 4.2.6 Due to the nature of the vessel operation and equipment installations, **flow meters requiring flow conditioning will NOT BE ACCEPTED.**

4.3 PROPULSION SHAFTING TORSION MEASUREMENT REQUIREMENTS

- 4.3.1 The ships are fitted with DC or AC electric propulsion or gearboxes and the various shaft numbers and sizes are found in Table 1.
- 4.3.2 The Offeror shall supply one (1) Full Bridge strain gauge for mounting to each shaft line for the measurement of torque, power, and shaft rpm.
- 4.3.3 The strain gauge shall have a range of +/- 500 microstrain for the measurement of torque, a temperature coefficient of zero and gain of no greater than 0.01% of full scale per degree Celsius (FS/°C), and a noise level no greater than 0.10% RMS for the full scale of measurement.

4.4 REMOTE MONITORING, DISPLAY, DATA LOGGING AND REPORTING REQUIREMENTS

4.4.1 The proposed MFM system shall include two (2) remote workstations with displays per vessel. The main processing unit shall be located in the machinery control room (MCR). The remote workstations with displays will be located in the Wheelhouse and in the engineer's office. The display located in the Wheelhouse must be dimmable.

Note:

As display sizes cannot be confirmed at this time, a minimum standard display size of 12" 4X3" is assumed with final size to be determined during the survey and acceptance by CCG and price to be adjusted in proportion to size reduction or increase.

4.4.2 The proposed MFM system shall be capable of reporting and displaying on each workstation the following minimum:

4.4.2.1 Propulsion engines aggregate and individual engines fuel consumption in real time;

4.4.2.2 Propulsion engines aggregate and individual engine fuel consumption per nautical mile in real time;

4.4.2.3 Ship Service Generator engines aggregate and individual engines fuel consumption in real time; and

4.4.2.4 Overall voyage reporting for each individual Propulsion engines and Ship Service Generator Engines, total aggregate for all Propulsion engines and for Ship Service Generator engines and aggregate of all Propulsion and Ship Service Generator engines.

4.4.3 Reporting options for all of the above shall be available in user customizable reports for value, graphical, and statistical views with capability for the export of each report for the user configurable reporting period. The reports shall be generated in .CSV, Excel, Access or other Microsoft Office product format. Export capability shall be via satellite, email and USB.

4.4.4 The proposed MFM system shall include analyzing software (Windows 7 compatible) for the two remote workstations and one copy for 'off vessel' location that is capable of importing, manipulating, running, display and export reports in accordance with article 4.4.3.

4.4.5 For each proposed MFM system, the Offeror shall supply all software for the operation of the MFM system as per the SOW including, but not limited to, the software to run the two remote display workstations.

4.4.6 The proposed MFM system shall be capable of data logging all data obtained from the complete system, at a maximum interval of one (1) minute and shall be capable to use and store this data stored for a minimum of six (6) full operational months.

4.5 DOCUMENTATION REQUIREMENTS

- 4.5.1 The Offeror shall supply all component drawings and technical specifications, in the English language, in both electronic and paper formats for each system. The electronic formats shall be compatible with Microsoft, Adobe, and / or AutoCAD.
- 4.5.2 The Offeror shall deliver for each installation; the original certificate and two (2) copies of 'all type approval certificate' from an approved IACS Classification Society accepted by Transport Canada Marine Safety.
- 4.5.3 The Offeror shall deliver for each ship; one (1) electronic and three (3) bound paper copies of comprehensive manuals in both English and French, describing the full installation, operation, and maintenance requirements of the new MFM system. The manuals shall be completely legible.
- 4.5.4 The Offeror shall include a detailed list of recommended spares. Recommended specified spares are those required for an operational period of five (5) years.
- 4.5.5 The Offeror shall provide for each MFM system, the specifications of the cables necessary to interconnect all the equipment in order to operate the proposed MFM system.

4.6 TRAINING REQUIREMENTS

- 4.6.1 The Offeror shall be capable of providing the training specified in the call-up. The Offeror shall provide familiarization user training such that each trainee is able to operate the MFM system, generate reports and perform maintenance. The Offeror shall identify the FSR who will provide the training, duration of training and provide a summary of the subject areas to be covered in order to certify that the trainees are able to operate and service the MFM system. The training shall be provided following the installation of the MFM system and prior to the sea trials, as requested by the CCG.

4.7 OFFEROR PRE-DELIVERY REQUIREMENTS

- 4.7.1 Prior to the Offeror ordering the equipment, the Offeror shall complete a vessel survey by **class** or by vessel, as directed by CCG, in order to verify and confirm the accuracy of the Government furnished technical information.
- 4.7.2 Following the vessel survey, the Offeror shall provide installation locations of the MFM system and equipment proposed and obtain acceptance of these locations by the CCG. The Offeror shall provide detailed instructions and plans of where the equipment is to be installed and obtain acceptances by the CCG. The instructions and plans must be delivered within 30 days of the survey date or as accepted by the CCG.

5.0 DELIVERABLES

Deliverables as per a call-up against the Standing Offer and in accordance with the Statement of Work.

- 5.1 All parts and services shall be delivered within 60 days of call-up receipt.

-
- 5.2 Prior to the Offeror ordering the equipment, the Offeror shall complete a vessel survey by **class** or by vessel, in accordance with article 4.7 Offeror Pre-Delivery Requirements.
 - 5.3 The proposed MFM system shall be delivered with all necessary components required for a fully operational system except for, the items and services provided under article 1.3 Government Furnished Equipment and Services.
 - 5.4 The Offeror shall provide an FSR for installation monitoring, final system connection, system set-to-work and configuration in accordance with article 2.6.
 - 5.5 The Offeror shall provide an FSR for Sea Trials, final system configuration, testing, validation, system set-to-work and final set-to-work, training and configuration in accordance with article 2.7.
 - 5.6 The Offeror shall deliver the documentation in accordance with article 4.5 Documentation Requirements.
 - 5.7 The Offeror shall deliver the training in accordance with article documentation as per article 4.6 Training Requirements.
 - 5.8 The Offeror personnel shall travel to the ship base location as requested as per the Call-up.
 - 5.9 The proposed MFM system provided by the Offeror shall include a list of recommended spares. Recommended specified spares are those required for an operational period of five (5) years.

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Buyer ID - Id de l'acheteur
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APPENDIX 1 of ANNEX "A"

SHIP LOCATIONS, ENGINE AND SHAFT SPECIFICATIONS, AND QUANTITIES

ANNEX "B"
BASIS OF PAYMENT

Prices will be inserted at Standing Offer Award using prices from Annex "E" Bid Price Table

All firm CDN\$ prices are valid for the initial one (1) year and the optional one (1) year period extension.

Section 1: Vessel Survey by FSR		
Vessel survey by class or vessel to be performed by FSR prior to finalizing equipment order such that all equipment data provided by Canada is validated, installation location determined and approved by the CCG. Price is valid for any vessel indicated in Annex "A" SOW.		
Note: Price shall be exclusive of any travel & living expenses.		
Item	Description	Price
VS	Vessel survey by class or vessel by FSR as requested by CCG	\$

Section 2: Installation Monitoring by FSR and Documentation		
Installation monitoring, final system connection, all documentation, set-to-work and configuration by FSR. Provision of 'All Type' classification society certificate for the complete system as per SOW.		
Note: Price shall be exclusive of any travel & living expenses.		
Item	Description	Per diem Price
IM1	Per diem rate for installation monitoring, system set-to-work and test by FSR (Per diem rate based on 8 hr. work day)	\$
IM2	Provide 'All Type' classification society certificate and all documentation per MFM system installed.	\$

Section 3: Training Session by FSR		
One training day consisting of two separate sessions of up-to 15 people per session by FSR.		
Note: Price shall be exclusive of any travel & living expenses.		
Item	Description	Per diem Price
TR	Per diem training day by FSR for two training sessions of up to 15 trainees per classroom session.	\$

Section 4: Sea Trials and Set-To-Work by FSR		
System activation, configuration, final set-to-work and sea trials by FSR.		
Note: Price shall be exclusive of any travel & living expenses.		
Item	Description	Price
STW	Per diem rate for sea trials and set-to-work by FSR (per diem rate to equal hourly rate multiplied by 8 hrs.)	\$
STW-A	Hourly rate for FSR for additional work. Must be pre-approved and same hourly rate above in STW.	\$

Section 5: Idle or Wait Time by FSR on site

Should a vessel be unavailable, the contractor is to provide the FSR per diem rate for waiting. If Idle/Wait time is less one day or 8 hours, an hourly rate based on per diem rate divided by 8 hours will apply.

Note: Price shall be **exclusive** of any travel & living expenses.

Item	Description	Price
STW-I	Per diem rate for FSR idle time should vessel be unavailable (standard 8 hour work day).	\$

Section 6A: Travel Expenses to Destination per roundtrip

Offeror to provide all inclusive price for **Travel expenses only including any travel wages and fees** to the destinations listed below for a single return trip in order to perform the work from sections 1-5 during a normal work week. All trips will be scheduled with a minimum two weeks notice and advised of required days as agreed upon.

Note: Local Travel and Living expenses once arrived at destination **are not to be included here**, see section 6B.

Item	Description	Price
NFLD	St-John's, NFLD per trip	\$
NS	Dartmouth, NS per trip	\$
QC	Quebec, QC per trip	\$
BC	Victoria, BC per trip	\$
ON	Burlington, ON per trip	\$
ON	Prescott, ON per trip	\$
ON	Parry Sound, ON, per trip	\$
NT	Hay River, NWT, per trip	\$

Section 6B: Local Travel and Living Expenses at Destination

Once arrived at the destination city in 6A above, the contractor will only be reimbursed for **local travel and living expenses** reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the [National Joint Council Travel Directive](#) and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

Item	Description	Costs
NJCT	Local Travel & Livings Expenses only	TBD

Section 7: Marine Fuel Management System

Firm prices per ship for the complete Marine Fuel Management system as per SOW, except government furnished equipment.

Note: Vessel survey by class or vessel to be performed prior to finalizing equipment order such that all data provided by Canada is validated and installation location determined.

Vessel Number	CCGS NGCC	Vessel base Base du navire	CDN\$ Price Prix \$CDN
1	Louis S. St-Laurent	St-John's, NL	\$
2	Terry Fox	St-John's, NL	\$
3	Amundsen	Québec, QC	\$
4	Des Groseilliers	Québec, QC	\$
5	Henry Larsen	St-John's, NL	\$
6	Pierre Radisson	Québec, QC	\$
7	Ann Harvey	St-John's, NL	\$
8	Edward Cornwallis	Dartmouth, NS	\$
9	George R. Pearkes	St-John's, NL	\$
10	Martha L. Black	Québec, QC	\$
11	Sir Wilfrid Laurier	Victoria, BC	\$
12	Sir Williams Alexander	Dartmouth, NS	\$
13	Samuel Risley	Parry Sound, ON	\$
14	Teleost	St-John's, NL	\$
15	John P. Tully	Victoria, BC	\$
16	Cape Roger	St-John's, NL	\$
17	Leonard J. Cowley	St-John's, NL	\$
18	Gordon Reid	Victoria, BC	\$
19	Caporal Kaeble V.C.	Québec, QC	\$
20	Corporal McLaren M.M.V.	Dartmouth, NS	\$
21	Corporal Teather C.V.	Burlington, ON	\$
22	G. Peddle S.C.	St-John's, NL	\$
23	A LeBlanc	Québec, QC	\$
24	M Charles M.B.	Victoria BC	\$
25	Constable Carrière	Burlington, ON	\$
26	Captain Goddard	Victoria BC	\$
27	Private Robertson V.C.	Burlington, ON	\$
28	Sir Wilfred Grenfell	St-John's, NL	\$
29	Tanu	Victoria, BC	\$
30	Hudson	Dartmouth, NS	\$
31	Alfred Needler	Dartmouth, NS	\$
32	Eckaloo	Hay River, NWT	\$
33	Griffon	Prescott, ON	\$
34	Limnos	Burlington, ON	\$

ANNEX "C"

MANDATORY TECHNICAL CRITERIA REQUIREMENTS

Item #	Criteria	Compliant		Reference to applicable page and paragraph of Proposal
		Yes	No	
1	Offeror must demonstrate they have delivered and installed a minimum of three (3) MFM ship installations with at least one (1) propulsion engine and one (1) ship service generator engine on each ship.			
2	Offeror must demonstrate that the proposed MFM system is of a proven established marine design, operationally functional on ships as per the environmental specifications in article 1.4 of SOW and that each proposed MFM system shall be configured for each specific vessel and therefore capable of simultaneously handling, as applicable per vessel, up-to six (6) propulsion engines, up-to four (4) ship service generator engines and up-to three (3) propulsion shafting torsion measurement gauges.			
3	Offeror must provide the classification society approval certificates or proof of classification society certification for the proposed MFM system and the fuel meters proposed as per SOW article 2.2.			
4	Offeror must confirm and certify that the proposed MFM system shall integrate with the CCG standard GPS as per SOW article 2.4.			
5	Offeror must provide written confirmation that the proposed MFM systems shall be in compliance with article 2.5 SOW.			
6	The Offeror must demonstrate that the proposed MFM system fully meets the requirements in accordance with article 1.5 Electrical Requirements of SOW.			
7	The Offeror must demonstrate that the proposed MFM systems are supported by a service and parts location in accordance with article 3 Service and Support Requirement of SOW.			

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File No. - N° du dossier
025ml. F7044-150030

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025ml
CCC No./N° CCC - FMS No./N° VME

8	The Offeror must demonstrate that the proposed MFM system fully meets the requirements in accordance with article 4 Operational Requirements of SOW.			
9	Offeror must demonstrate their ability to meet each and every requirement listed under article 5 Deliverables of SOW.			
10	Offeror must provide written confirmation of his acceptance and compliance with the modified warranty clause of article 6.2.1 General Conditions from the Standing Offer and Resulting Contract clauses section.			

ANNEX "D" to PART 5 - REQUEST FOR STANDING OFFERS

FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Offeror, by submitting the present information to the Standing Offer Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare an offer non-responsive, or may set-aside a Standing Offer, or will declare a contractor in default, if a certification is found to be untrue, whether during the offer evaluation period, during the Standing Offer period, or during the contract period. Canada will have the right to ask for additional information to verify the Offeror's certifications. Failure to comply with any request or requirement imposed by Canada may render the Offer non-responsive, may result in the Standing Offer set-aside or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit [Employment and Social Development Canada \(ESDC\) – Labour's](#) website.

Date: _____(YYYY/MM/DD) (If left blank, the date will be deemed to be the RFSO closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Offeror certifies having no work force in Canada.
- A2. The Offeror certifies being a public sector employer.
- A3. The Offeror certifies being a federally regulated employer being subject to the Employment Equity Act.
- A4. The Offeror certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).

A5. The Offeror has a combined workforce in Canada of 100 or more employees; and

- A5.1 The Offeror certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC-Labour.

OR

- A5.2. The Offeror certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC-Labour. As this is a condition to issuance of a standing offer, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Offeror is not a Joint Venture.

OR

- B2. The Offeror is a Joint venture and each member of the Joint Venture must provide the Standing Offer Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

**ANNEX "E"
 BID PRICE TABLE**

Instructions:

1. Offerors must complete and submit **Canadian dollar prices** for all items listed below. Failure to complete each line item below with a valid Canadian dollar price will render the bid non-responsive.
2. All firm prices are valid for the initial one (1) year period and for the optional one (1) year extension period.
3. **All quantities indicated under Evaluation Factor are used for evaluation purposes only.**

Section 1: Vessel Survey by FSR

Vessel survey by class or vessel to be performed by FSR prior to finalizing equipment order such that all equipment data provided by Canada is validated, installation location determined and approved by the CCG. Price is valid for any vessel indicated in Annex "A" SOW.

Note: Price shall be **exclusive** of any travel & living expenses.

Item	Description	Price (a)	Evaluation Factor (b)	Evaluated Price (a) x (b)
VS	Vessel survey by class or vessel by FSR as requested by CCG	\$	10	\$
Total				\$

Section 2: Installation Monitoring by FSR and Documentation

Installation monitoring, final system connection, all documentation, set-to-work and configuration by FSR. Provision of 'All Type' classification society certificate for the complete system as per SOW.

Note: Price shall be **exclusive** of any travel & living expenses.

Item	Description	Per diem Price (a)	Evaluation Factor (b)	Evaluated Price (a) x (b)
IM1	Per diem rate for installation monitoring, system set-to-work and test by FSR (Per diem rate based on 8 hr. work day)	\$	34	\$
IM2	Provide 'All Type' classification society certificate and all documentation per MFM system installed.	\$	34	\$
Total				\$

Section 3: Training Session by FSR

One training day consisting of two separate sessions of up-to 15 people per session by FSR.

Note: Price shall be **exclusive** of any travel & living expenses.

Item	Description	Per diem Price (a)	Evaluation Factor (b)	Evaluated Price (a) x (b)
TR	Per diem training day by FSR for two training sessions of up to 15 trainees per classroom session.	\$	34	\$
Total				\$

Section 4: Sea Trials and Set-To-Work by FSR

System activation, configuration, final set-to-work and sea trials by FSR.

Note: Price shall be **exclusive** of any travel & living expenses.

Item	Description	Price (a)	Evaluation Factor (b)	Evaluated Price (a) x (b)
STW	Per diem rate for set-to-work and sea trials by FSR (per diem rate to equal hourly rate multiplied by 8 hrs.).	\$	34	\$
STW-A	Hourly rate for additional work by FSR. Must be pre-approved and same rate above STW hourly rate.	\$	150	\$
Total				\$

Section 5: Idle or Wait Time by FSR on site

Should a vessel be unavailable, the contractor is to provide the FSR per diem rate for waiting. If Idle/Wait time is less than 8 hours, an hourly rate based on per diem rate divided by 8 hours will apply.

Note: Price shall be **exclusive** of any travel & living expenses.

Item	Description	Price (a)	Evaluation Factor (b)	Evaluated Price (a) x (b)
STW-I	Per diem rate for FSR idle time (standard 8 hour work day)	\$	15	\$
Total				\$

Section 6A: Travel Expenses to Destination per roundtrip

Offeror to provide all inclusive price for **Travel expenses only including any travel wages and fees** to the destinations listed below for a single return trip in order to perform the work from sections 1-5 during a normal work week. All trips will be scheduled with a minimum two weeks notice and advised of required days as agreed upon.

Note: Local Travel and Living expenses once arrived at destination **are not to be included here**, see section 6B.

Item	Description	Price (a)	Evaluation Factor (b)	Evaluated Price (a) x (b)
NFLD	St-John's, NFLD per trip	\$	8	\$
NS	Dartmouth, NS per trip	\$	8	\$
QC	Quebec, QC per trip	\$	8	\$
BC	Victoria, BC per trip	\$	3	\$
ON	Burlington, ON per trip	\$	2	\$
ON	Prescott, ON per trip	\$	2	\$
ON	Parry Sound, ON, per trip	\$	2	\$
NT	Hay River, NWT, per trip	\$	1	\$
Total				\$

Section 6B: Local Travel and Living Expenses at Destination

Once arrived at the destination city in 6A above, the contractor will only be reimbursed **for local travel and living expenses** reasonably and properly incurred in the performance of the Work, at cost, without any allowance for profit and/or administrative overhead, in accordance with the meal, private vehicle and incidental expenses provided in Appendices B, C and D of the [National Joint Council Travel Directive](#) and with the other provisions of the directive referring to "travellers", rather than those referring to "employees".

Item	Description	Costs	Evaluation Factor (b)	Evaluated Price (a) x (b)
NJCT	Local Travel & Living Expenses only	TBD	0	N/A

Section 7: Marine Fuel Management System

Firm prices per ship for the complete Marine Fuel Management system as per SOW, except government furnished equipment.

Note: Vessel survey by class or vessel to be performed prior to finalizing equipment order such that all data provided by Canada is validated and installation location determined.

Evaluation factor for each vessel in this section is one (1).

Vessel Number	CCGS NGCC	Vessel base Base du navire	CDN\$ Price Prix \$CDN
1	Louis S. St-Laurent	St-John's, NL	\$
2	Terry Fox	St-John's, NL	\$
3	Amundsen	Québec, QC	\$
4	Des Groseilliers	Québec, QC	\$
5	Henry Larsen	St-John's, NL	\$
6	Pierre Radisson	Québec, QC	\$
7	Ann Harvey	St-John's, NL	\$
8	Edward Cornwallis	Dartmouth, NS	\$
9	George R. Parkes	St-John's, NL	\$
10	Martha L. Black	Québec, QC	\$
11	Sir Wilfrid Laurier	Victoria, BC	\$
12	Sir Williams Alexander	Dartmouth, NS	\$
13	Samuel Risley	Parry Sound, ON	\$
14	Teleost	St-John's, NL	\$
15	John P. Tully	Victoria, BC	\$
16	Cape Roger	St-John's, NL	\$
17	Leonard J. Cowley	St-John's, NL	\$
18	Gordon Reid	Victoria, BC	\$
19	Caporal Kaeble V.C.	Québec, QC	\$
20	Corporal McLaren M.M.V.	Dartmouth, NS	\$
21	Corporal Teather C.V.	Burlington, ON	\$
22	G. Peddle S.C.	St-John's, NL	\$
23	A LeBlanc	Québec, QC	\$
24	M Charles M.B.	Victoria BC	\$
25	Constable Carrière	Burlington, ON	\$
26	Captain Goddard	Victoria BC	\$
27	Private Robertson V.C.	Burlington, ON	\$
28	Sir Wilfred Grenfell	St-John's, NL	\$
29	Tanu	Victoria, BC	\$
30	Hudson	Dartmouth, NS	\$
31	Alfred Needler	Dartmouth, NS	\$
32	Eckaloo	Hay River, NWT	\$
33	Griffon	Prescott, ON	\$
34	Limnos	Burlington, ON	\$
Total			\$

All Sections Grand Total Evaluated price	\$
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A		B		C	D	E	F	G	H
1		Appendix 1 to Annex "A"							
TABLE 1		Vessel Location position du navire		Main Engines Moteurs principaux		Ship Service Génératrices		Shafts l'arbre porte-hélice	
CCGS NGCC		Number Fitted Nombre installé	Manufacturer/modèle Marque/modèle	Number Fitted Nombre installé	Manufacturer/modèle Marque/modèle	Number Fitted Nombre installé	Diameter		
2	Louis S. St-Laurent	5	Krupp Makk 16M453C	3	Wartsila Vasa 16V32	1	Wartsila 6L22 Caterpillar 3512B	2	662mm
3	Terry Fox	4	Stork-Werkspoor 8TM410	2	Caterpillar 3508	3	Krupp Mak 6M282	3	2 of 26" 1 of 25.5"
4	Amundsen	6	Alco M251F	3	Alco 251F	2	Catepillar 3512B	2	775mm
5	Des Groseilliers	6	Alco M251F	3	Alco 251F	2	Alco MLW251F	2	24"
6	Henry Larsen	3	Wartsila Vasa 16V32	1	Wartsila 6L22 Caterpillar 3512B	3	Alco MLW251F	2	24"
7	Pierre Radisson	6	Alco M251F	4	MTU 4000	1	Wartsila 6L22 Caterpillar 3512B	2	662mm
8	Ann Harvey	3	Alco 251F	1	Caterpillar 3508	2	MTU 4000	2	24"
9	Edward Cornwallis	3	Alco 251F	1	Caterpillar 3508	2	Caterpillar 3508	2	510 mm
10	George R. Pearkes	3	Alco 251F	1	Caterpillar 3508	2	Caterpillar 3508	2	510 mm
11	Martha L. Black	3	Alco 251F	1	Caterpillar 3508	2	Caterpillar 3508	2	510 mm
12	Sir Wilfrid Laurier	3	Alco 251F	1	Caterpillar 3508	2	Caterpillar 3508	2	510 mm
13	Sir Williams Alexander	3	Alco 251F	1	Caterpillar 3508	2	Caterpillar 3508	2	510 mm
14	Samuel Risley	4	Wartsila Vasa 12V22	2	General Motors 6-71	2	Caterpillar 3508	2	510 mm
15	Teleost	1	Caterpillar 3612	1	Caterpillar 3512	2	General Motors 6-71	2	200mm
16	John P. Tully	2	Deutz/ S/BV8M628	3	Caterpillar C18	1	Caterpillar 3512	1	340mm
17	Cape Roger	2	Polar Nohab F212V	2	Caterpillar 3406	1	Caterpillar C18	1	290mm
18	Leonard J. Cowley	2	Polar Nohab F312V	3	Caterpillar 3412	1	Caterpillar 3406	1	310
19	Gordon Reid	4	Deutz 6BVM 628	3	Caterpillar 3406	1	Caterpillar 3412	1	13.5"
20	Caporal Kaeble V.C.	2	MTU 4000M 93L	3	Caterpillar 3406	2	Caterpillar 3406	2	125mm
21	Corporal McLaren M.M.V.	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	Caterpillar 3406	2	152mm
22	Corporal Teather C.V.	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	Northern Lights M1066A3	2	152mm
23	G. Peddle S.C.	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	Northern Lights M1066A3	2	152mm
24	A LeBlanc	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	Northern Lights M1066A3	2	152mm
25	M Charles M.B.	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	Northern Lights M1066A3	2	152mm
26	Constable Carrière	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	Northern Lights M1066A3	2	152mm
27	Constable Carrière	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	Northern Lights M1066A3	2	152mm
28	Captain Goddard	2	MTU 4000M 93L	3	Northern Lights M1066A3	2	Northern Lights M1066A3	2	152mm
29	Private Robertson V.C.	2	MTU 4000M 93L	2	Northern Lights M1066A3	2	Northern Lights M1066A3	2	152mm
30	Sir Wilfred Grenfell	2	Deutz BVM 628 V16 Deutz BVM 628 L9	2	Caterpillar C18	2	Northern Lights M1066A3	2	152mm
31	Tanu	2	Fairbanks Morse 38D8	2	Caterpillar C18	2	Caterpillar C18	2	320mm
32	Hudson	2	Alco 251D	3	Caterpillar C9	1	Caterpillar C9	1	253mm
33	Alfred Needler	1	Caterpillar 3606	2	Caterpillar 398	2	Caterpillar 398	2	14.78"
34	Eckaloo	2	Caterpillar 3512B	2	Caterpillar 3306	1	Caterpillar 3306	1	850mm
35	Griffon	4	Fairbanks Morse 38D8	2	Caterpillar 3306	2	Caterpillar 3306	2	6"
36	Limnos	2	Caterpillar C18	3	Caterpillar 353	2	Caterpillar 353	2	7"
37		2	Caterpillar C18	2	Caterpillar C6.6	2	Caterpillar C6.6	2	

TABLE 2 MAIN PROPULSION ENGINE DATA

Moteurs principaux														
Manufacturers	Marque	MAK	ALCO	ALCO	ALCO	MTU	WARTSILA VASA	WARTSILA VASA	CATERPILLER	CATERPILLER	STORK	Deutz	Deutz	Nohab
Model	16V453	251F	251F	251F	4000V93L	10/32	1202ZMD	3512B	3512	3508	87M410D	SVW6M28	SVW6M28	F212V
Quantity	5	18	18	18	3	18	4	2	1	6	4	2	2	2
Power Output (kW)	5772	2200	2200	2200	2496	2980	1630	390	390	600	4766	3052	3052	1600
Power Output (HP)	7800	3000	3000	3000	3400	4100	2200	520	520	820	6500	4150	4150	2160
Speed (RPM)	1800	1800	1800	1800	1800	1800	720	1800	1800	1800	1800	1800	1800	1800
Operating Temperature	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient
Estimated Fuel Consumption 95% MCR	1100	500	500	500	550	917	350	208	250	644	1000	200	250	750
Estimated Fuel Consumption 100% MCR														
Estimated Fuel Consumption 105% MCR														
Booster Pump Capacity LPH, Pressure	2800	1800, 3.4 bar				1800/PH	4 BAR				6000, 3 BAR	3 BAR	1800, 5 BAR	
Supply Line Diameter (mm)	25.4	25	25	25	10	25	28	25.4	25.4	19.1	50	19	25	25.4
Return Line Diameter (mm)	25.4	12.7	12.7	12.7	19.1	10	28	19	25.4	19.1	38	25	19	19
Injection Line Diameter (mm)	25.4	12.7	12.7	12.7	19.1	10	28	19	25.4	19.1	38	25	19	19
Mechanical/Electronic Injection		M	M	M	E	M	M	M	M	M	M	M	M	M
Capacity of the pump of carbant	1800				1800	3780	400	470	470	1800	1800	1800	1800	1800
Engine fuel P/capacity		Y	Y	Y	N	Y	Y	N	N	N	Y	N	N	N
Electrical power meter fitted		Y	Y	Y	N	Y	Y	N	N	N	Y	N	N	N
Fuel Consumption (theoretical)	0.866	0.293	0.293	0.293	0.261	0.227	0.233	0.232	0.218	0.229	0.247	0.233	0.231	0.228

TABLE 3 SHIP SERVICE AUXILIARY ENGINE DATA

Généralités														
Manufacturers	Marque	MAK	Volvo Penta	MTU*	Northern Lights/Lugger	WARTSILA WASA	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	CATERPILLER	Nohab
Model	6V422	D16 C-A	8V400M235	612	M1066A3	3068	3306	3406	C18	C9	3512	3512B	0398	3412
Quantity	18	6	20	20	20	20	120	120	215	1070	1070	1070	1070	1450
Power Output (kW)	950.0	1500	2900	925	1320	2800	3374.05	3374.05	3374.05	1070	1070	1070	1070	1450
Power Output (HP)	1300	2000	4000	1250	1800	3800	4600	4600	4600	1450	1450	1450	1450	2000
Speed (RPM)	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800	1800
Operating Temperature	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient	Ambient
Estimated Fuel Consumption 95% MCR	4.5	83	460	460	16.8 @ 3%	40	13.5	80	90	26	344	160	80	50
Estimated Fuel Consumption 100% MCR														
Estimated Fuel Consumption 105% MCR														
Booster Pump Capacity LPH, Pressure	9.9	19.1	25.4	20	8	0.261	680, 3.6 bar							
Supply Line Diameter (mm)	12.7	19.1	25.4	20	12.7	11	11	11	19.13	12.7	25.4	25.4	19	19
Return Line Diameter (mm)	12.7	19.1	25.4	20	12.7	11	11	11	19.1	12.7	25.4	25.4	19	19
Mechanical/Electronic Injection	M	E	E	M	M	M	M	M	E	M	M	E	M	M
Capacity of the pump of carbant														
Engine fuel P/capacity		N	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	N	N
Electrical power meter fitted		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	N
Fuel Consumption (theoretical)	0.837	0.256	0.254	0.245	0.339	0.339	0.213	0.213	0.25	0.32	0.32	0.232	0.385	0.289

* Ambient temperature range in ER
 ** Deck of fuel = 43.2 G/L
 spaces: 10°C to 50°C