

**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 0A1 / Noyau 0A1
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

Title - Sujet VESSEL PERFORMANCE MONITORING SYST.	
Solicitation No. - N° de l'invitation F7049-130221/A	Date 2014-03-14
Client Reference No. - N° de référence du client F7049-130221	
GETS Reference No. - N° de référence de SEAG PW-\$\$ML-043-24377	
File No. - N° de dossier 043ml.F7049-130221	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-04-25	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
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: Byron, Dan	Buyer Id - Id de l'acheteur 043ml
Telephone No. - N° de téléphone (819) 956-0691 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution

Marine Machinery and Services / Machineries et services
maritimes
11 Laurier St. / 11, rue Laurier
6C2, Place du Portage
Gatineau
Québec
K1A 0S5

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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Annex A Requirement

PART 1 - GENERAL INFORMATION

1. Security Requirement

There is no security requirement associated with this bid solicitation.

2. Requirement

The Contractor must provide a **Vessel Performance Monitoring System** in accordance with Requirement at Annex "A".

3. Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

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

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2013-06-01) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

1.1 SACC Manual Clauses

B1000T (2007-11-30) Condition of Material

2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

2.1 Delivery

While delivery is requested by 01 August, 2014 , the best delivery that could be offered is _____ .

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **seven (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 questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Optional Site Visit - Vessel

The CCGS Cygnus will be made available for an **optional** site visit of the vessel. The site visit will be held on **April 3 2014 at 10:00**, CCG Base, St. John's, NFLD. Bidders interested in viewing must communicate with the Contracting Authority no later than **two (2) working days** before the scheduled visit to confirm attendance and provide the name(s) of the person(s) who will attend. Bidders who do not confirm attendance and provide the name(s) of the person(s) who will attend as required will not be allowed access to the site. Bidders will be requested to sign an attendance form. Bidders who do not attend or 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.

5. Availability of Drawings

Drawings are available upon request. Bidders are to e-mail their request for drawings to: Dan.Byron@tpsgc-pwgsc.gc.ca specifying the PWGSC File No. Bidders are responsible to request drawings early enough to ensure that the drawings are received (through regular mail) before bid closing.

6. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in **Newfoundland and Labrador**.

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.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

Section I: Technical Bid (1 hard copy)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

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

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

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

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

Section I: Technical Bid

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

1.1 Exchange Rate Fluctuation

C3011T (2013-11-06), Exchange Rate Fluctuation

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

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

1.1 Technical Evaluation**1.1.1 Mandatory Technical Criteria**

Bidder must submit their technical bid in accordance with Annex "A" - Requirement.

1.2 Financial Evaluation

SACC Manual Clause A0222T (2013-04-25), Evaluation of Price

2. Basis of Selection - Multiple Items

- 2.1** 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 on an aggregate basis will be recommended for award of a contract.

PART 5 - CERTIFICATIONS

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

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

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

1. Mandatory Certifications Required Precedent to Contract Award**1.1 Code of Conduct and Certifications - Related documentation**

By submitting a bid, the Bidder certifies that the Bidder and its affiliates are in compliance with the provisions as stated in Section 01 Code of Conduct and Certifications - Bid of Standard Instructions 2003. The related documentation therein required will assist Canada in confirming that the certifications are true.

1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](http://www.hrsdc.gc.ca/eng/labour/index.shtml)" list (<http://www.hrsdc.gc.ca/eng/labour/index.shtml>) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "[FCP Limited Eligibility to Bid](http://www.hrsdc.gc.ca/eng/labour/index.shtml)" list at the time of contract award.

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

The Contractor must provide a **Vessel Performance Monitoring System** in accordance with the Requirement at Annex "A".

3. Standard Clauses and Conditions

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

3.1 General Conditions

2010A (2013-04-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

All the deliverables must be received on or before _____.

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Dan Byron
Supply Officer
Public Works and Government Services Canada
Acquisitions Branch
Marine Systems Directorate
Place du Portage, Phase III -6C2
11 Laurier St.
Gatineau, QC
K1A 0S5
Telephone : 819-956-0691
Facsimile: 819-956-0897
E-mail address: dan.byron@tpsgc-pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

5.2 Project Authority

The Project Authority for the Contract is:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone : _____

Facsimile: _____

E-mail address: _____

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

6. Payment

6.1 Basis of Payment - Firm Unit Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit price as specified in the Line Item Detail. Customs duties are included and Applicable Taxes are extra.

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

6.2 Limitation of Price

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

6.3 Method of Payment

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

6.4 SACC Manual Clauses

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

7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions.
2. Invoices must be submitted on the supplier's own invoice form and must be prepared to show:
 - (a) The date

- (b) Name and address of the consignee
- (c) Item number, quantity, part number, reference number and description
- (d) Contract number.

3. Invoices must be distributed as follows:

- (a) The original and one (1) copy of all invoices must be forwarded to the appropriate consignee(s)

- (b) One (1) copy must be forwarded to:

DFO - Canadian Coast Guard
 VLE MLM Program
 Integrated Technical Services
 200 Kent Street, STN 7N157
 Ottawa Ontario
 K1A 0E6

- (c) One (1) copy must be forwarded to the contracting authority.

Dan Byron
 PWGSC
 Marine Systems
 6C2, Phasse III
 11 Laurier St,
 Gatineau Quebec,
 K0A 0S5
 Email: dan.byron@pwgsc.gc.ca
 Phone: (819) 956-0691

4. Payment will only be made on receipt of satisfactory invoices duly supported by specific release documents and/or other documents called for under this document. Invoices are not be submitted prior to shipment of materiel.

5. If payment is to be made to an address other than the address on the cover page of the contract, it is to be clearly identified within the body of the contract as the "Remit to" address. This address should include the following:

Company name
 Full Address
 City
 Province/State
 Postal/Zip Code

8. Certifications

8.1 Compliance

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

unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

9. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in _____. (The contracting authority will insert the name of the province or territory as specified by the Bidder in its bid, if applicable)

10. Priority of Documents

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

- (a) the Articles of Agreement;
- (b) 2010A (2013-04-25) General Conditions - Goods (Medium Complexity);
- (c) Annex "A" - Requirement;
- (d) the Contractor's bid dated _____ (The contracting authority will insert the date of bid).

11. SACC Manual Clauses

B7500C (2006-06-16) Excess Goods
D9002C (2007-11-30) Incomplete Assemblies

12. Shipping Instructions - Delivery at Destination

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

- a. Free on Board (Destination) common carrier to CCG Base - CCGS Cygnus St. John's NFLD, 280 Southside Rd. St. John's, NL A1H 1A7 for shipments from the United States government; or.
- b. Delivered Duty Paid (DDP) to CCG Base - CCGS Cygnus St. John's NFLD, 280 Southside Rd. St. John's, NL A1H for shipments from a commercial contractor

CCGS Cygnus	Statement of Requirements	14 JAN 14
Vessel Performance Monitoring System		

Part 1: PURPOSE

- 1.1 This statement of requirements is intended to provide a guide for Contractors when preparing proposals for the supply of a Vessel Performance Monitoring System for the CCGS Cygnus.
- 1.2 This system will be a new installation aboard the vessel and will require integration with the existing Alarm and Monitoring system or be provided as a standalone installation.
- 1.3 The ship will be available for the viewing of project requirements at the Canadian Coast Guard Base, St. John's, NL on March 20th, 2014 at 10 am.
- 1.4 Proposals must demonstrate an understanding of all the requirements described in this document. The proposals will be evaluated on the basis of the following criteria:
 - a. Demonstrated completeness and quality of the proposal. This is best achieved by responding to each section of this document and stating and / or showing that its requirements are understood. (Ref. Sections 1.1 and entire document).
 - b. Demonstrated marine experience of the Contractor with regards to propulsion control system retrofits on a ship of this class (Ref. Sections 2.1, 2.2, and 2.3) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**
 - c. Regional lifecycle support capability of the System supplier (Ref. Section 2.3) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**
 - d. Ability of the system to meet Operational Requirements (Ref. Sections 3.1, 3.2, 3.3, 3.4, and 3.5) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**
 - e. Ability of the system to meet Technical Requirements (Ref. Sections 4.1, 4.2, and 4.3) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**
 - f. Ability to meet Delivery Requirements (Ref. Sections 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, and 5.7) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**

Part 2: GENERAL REQUIREMENTS

CCGS Cygnus	Statement of Requirements	14 JAN 14
Vessel Performance Monitoring System		

- 2.1** The proposed system must be of an established marine design, operationally proven on ships in Eastern Canadian / North Atlantic waters on a year-round basis. Contact references for a minimum of three (3) similar installations shall be included with the bid.
- 2.2** The proposed system design shall be fully approved by at least one recognized member of the International Association of Classification Societies (IACS) and the Delegated Statutory Inspection Program (DSIP) as outlined by Transport Canada. Appropriate classification society approval document(s) for proposed system must be included with Contractors' proposals.
- 2.3** The vessel performance monitoring system shall be supported by a **service and parts facility** within forty-eight hour availability to the ship's operational area which is the province of Newfoundland and Labrador. Proposals are to identify the location of this facility, the services offered, and key personnel.
- 2.4** The deliverables shall include the engineering, construction, and certification for the new performance monitoring system and all components.

Part 3: OPERATIONAL REQUIREMENTS

- 3.1** The proposed vessel performance monitoring system shall incorporate four (4) primary component systems:
- 3.1.1** Main Engine Fuel Consumption Measurement
 - 3.1.2** Ship Service Generators Fuel Consumption Measurement
 - 3.1.3** Propulsion Shafting Torsional Measurement
 - 3.1.4** Remote Monitoring and Reporting
- 3.2** Main Engine Fuel Consumption Measurement
- 3.2.1** A total of two (2) main engines are fitted aboard the ship. The engines are Wartsila Nohab 212V F20 each rated at approximately 2200 bhp.
 - 3.2.2** Proposals shall include the supply of four (4) flowmeters complete with bypass arrangements for the measurement of fuel supply to each engine and measurement of returned fuel. Flowmeter sizing shall be compatible with existing piping systems and fuel flow.
 - 3.2.3** The proposed flowmeters must 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 0.83 to 0.88 @ 20°C.

CCGS Cygnus	Statement of Requirements	14 JAN 14
Vessel Performance Monitoring System		

3.2.4 Accuracy of the flowmeters shall be +/- 0.1% within the range 25% to 100% of the designed flow rate.

3.2.5 Due to the nature of the installation, flowmeters not requiring flow conditioning will be required.

3.3 Ship Service Generators Fuel Consumption Measurement

3.3.1 A total of two (2) ship service generators are fitted aboard the ship. The units are Volvo D12 gensets each rated at approximately 335 kW.

3.3.2 Proposals shall include the supply of four (4) flowmeters complete with bypass arrangements for the measurement of fuel supply to each engine and measurement of returned fuel. Flowmeter sizing shall be compatible with existing piping systems and fuel flow.

3.3.3 The proposed flowmeters must 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 0.83 to 0.88 @ 20°C.

3.3.4 Accuracy of the flowmeters shall be +/- 0.1% within the range 25% to 100% of the designed flow rate.

3.3.5 Due to the nature of the installation, flowmeters not requiring flow conditioning will be required.

3.4 Propulsion Shafting Torsional Measurement

3.4.1 The ship is fitted with a single propulsion shaft coupled to the two main engines via the reduction gearbox. Rotation is unidirectional as the ship is fitted with a controllable pitch propeller. Intermediate shaftline diameter is 265 mm.

3.4.2 Proposals shall include the supply of one (1) Full Bridge strain gauge for mounting to the shaftline for the measurement of torque, power, and shaft rpm.

3.4.3 The strain gauge must have a range of +/- 500 microstrain for the measurement of torque, a temperature coefficient for 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. Operating temperature range is given below.

3.5 Remote Monitoring and Reporting

CCGS Cygnus	Statement of Requirements	14 JAN 14
Vessel Performance Monitoring System		

- 3.5.1** A minimum of two (2) display stations will be supplied as a part of the proposal. The main display will be located in the machinery control room (MCR) with a secondary remote display being located in the Wheelhouse.
- 3.5.2** The system will be capable of reporting the following:
 - 3.5.2.1** Propulsion engine fuel consumption per nautical mile in real time
 - 3.5.2.2** Propulsion engine specific fuel consumption in real time
 - 3.5.2.3** Propulsion engine fuel consumption in real time
 - 3.5.2.4** Ship Service generator fuel consumption in real time
 - 3.5.2.5** Overall voyage reporting
- 3.5.3** Reporting options for all of the above shall be available in value, graphical, and statistical views with capability for the export of each report for the user configurable reporting period. Export capability shall be via USB device.
- 3.5.4** The proposed system shall be supplied with analyzing software for the further analysis of exported reports. The supplied software must be compatible with Windows 7.

Part 4: PROOF OF PERFORMANCE

- 4.1** Unless specified otherwise, all supplied components, and materials 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:
 - 4.1.1** Exposure to moisture-laden and salt-laden atmosphere, weather, sun, high wind velocities, and ice.
 - 4.1.2** Ambient temperature of up to 50 °C.
 - 4.1.3** Relative humidity of up to 95%.
 - 4.1.4** Roll angles up to 15° (static) and 22.5° (dynamic).
 - 4.1.5** Pitch angles up to 5° (static) and 7.5° (dynamic).
 - 4.1.6** Vibration frequency range of 5 – 50 Hz with a velocity amplitude of 20 mm/s or peak acceleration of +/- 1.0g with a duration of 5 – 10 s.

CCGS Cygnus	Statement of Requirements	14 JAN 14
Vessel Performance Monitoring System		

- 4.2** The proposed vessel performance monitoring system shall be capable of operating from an existing electrical supply on the vessel. Available supplies are 110/220/440 V/60Hz.
- 4.3** All required electrical work shall conform to the requirements of the Transport Canada Publication TP127 – Ships Electrical Standards and / or IEEE 45:2002 – Recommended Practice for Electrical Installations on Ships.

Part 5: DELIVERY REQUIREMENTS

- 5.1** The Contractor shall deliver the new vessel performance monitoring system to the CCGS Cygnus, c/o Technical Stores, 280 Southside Rd., St. John's, NL. Delivery shall be no later than 01 August, 2014.
- 5.2** The vessel performance monitoring system shall be delivered complete with all other components required for the installation of a fully operational system. Installation of the system will be completed under separate contract.
- 5.3** The Bidder shall include an hourly FSR rate for the purpose of the system installation and commissioning. Installation and commissioning of the system, outside of piping modifications, is anticipated to be 60 hours. This hourly rate will be used for the purpose of bid evaluation.
- 5.4** Delivery of the proposed system shall include all recommended spares and special tools required for installation, testing, commissioning, and trials. Recommended spares to be specified are those required for an operational period of five (5) years.
- 5.5** The Bidder shall supply all component drawings and technical specifications, in the English language, in both electronic and paper formats. The electronic formats shall be compatible with Microsoft, Adobe, and / or AutoCAD.
- 5.6** The Contractor shall deliver to the above address, three (3) copies of all type approval certificates of an IACS approved Classification Society which is also accepted by Transport Canada Marine Safety. At least one of these certificates is to be the original copy.
- 5.7** The Contractor shall deliver to the above address, one (1) electronic and three (3) bound paper copies of comprehensive manuals describing the full installation, operation, and maintenance requirements of the new vessel performance monitoring system. The manuals are to be completely legible and written in the English language. French language manuals shall also be included should they be available.