

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 Condition Survey-CCG T1100 Vessels		
Solicitation No. - N° de l'invitation F7049-130192/A		Date 2014-01-28
Client Reference No. - N° de référence du client F7049-130192		
GETS Reference No. - N° de référence de SEAG PW-\$\$MD-028-24247		
File No. - N° de dossier 028md.F7049-130192	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-02-19		Time Zone Fuseau horaire Eastern Standard Time EST
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Avery, David		Buyer Id - Id de l'acheteur 028md
Telephone No. - N° de téléphone (819) 956-5939 ()		FAX No. - N° de FAX (819) 956-0897
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**

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

Issuing Office - Bureau de distribution

Ship Refits and Conversions / Radoubss et modifications de navires and / et
11 Laurier St. / 11, rue Laurier
6C2, Place du Portage
Gatineau, Québec K1A 0S5

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into seven (7) parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, if applicable, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Technical Specification, the Basis of Payment, the Insurance Requirements and other Annexes.

1.2 Summary

1. The Requirement is:

To perform a survey of main rotating electrical propulsion machinery and propulsion transformers onboard the T1100 vessels, including the CCGS Sir William Alexander, CCGS Edward Cornwallis and CCGS Pearkes, all in accordance with the associated Technical Statement of Work for T1100 Vessels detailed in Annex "A".
2. Bidders must provide a list of names, or other related information as needed, pursuant to section 01 of Standard Instructions 2003.
3. The requirement is exempt from the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), Annex 4 and the North American Free Trade Agreement (NAFTA), Chapter Ten Annex 1001.2b Paragraph 1(a). However, it is subject to the Agreement on Internal Trade (AIT). The sourcing strategy relating to this procurement will be limited to suppliers in Eastern Canada, in accordance with Shipbuilding, Refit, Repair and Modernization Policy (1996-12-19).

1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority **within 15 working days** 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

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

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

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

2.2 Submission of Bids

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **three (3) working days** before the bid closing date. Enquiries received after that time may not be answered.

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

Any clarifications or changes to the bid solicitation resulting from the questions and answers will be included as an amendment to the bid solicitation.

2.4 Applicable Laws

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

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.

Refer to Annex "E1" for Deliverables/Certifications.

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F7049-130192/A

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

F7049-130192

Amd. No. - N° de la modif.

File No. - N° du dossier

028mdF7049-130192

Buyer ID - Id de l'acheteur

028md

CCC No./N° CCC - FMS No/ N° VME

2.5 Work Period - Marine

NOTE: Work is to be performed during the vessel's layup periods as follows (Dates are pending operational requirements)

Vessel	Commence	Approx. Completion of the On-Site Work
CCGS Sir William Alexander	June 2014	July 2014
CCGS Edward Cornwallis	August 2014	September 2014
CCGS George R. Pearkes	September 2014	October 2014

By submitting a bid, the Bidder certifies that they have sufficient materiel and human resources allocated or available and that the above work period is adequate to both complete the known work.

PART 3 - BID - PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

- Section I - Technical Bid (2 hard copies)
- Section II - Financial Bid (1 hard copy)
- Section III - Certifications (1 hard copy)

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

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

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

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

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

Section I: Technical Bid

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

Notwithstanding deliverable requirements specified within the bid solicitation and its associated Technical Specification Annex "A", mandatory deliverables that must be submitted with the Bidder's bid to be deemed responsive are summarized in Annex "E1".

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet in Annex "D". The total amount of Applicable Taxes must be shown separately.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

Section I - Technical Bid / Certifications

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

Notwithstanding deliverable requirements specified within the bid solicitation and its associated Technical Specification Annex "A", mandatory deliverables that must be submitted with the Bidder's bid to be deemed responsive are summarized in Annex "E1".

Section II - Financial Bid

In order to be compliant, the Bidder's bid must, to the satisfaction of Canada, meet all requirements and provide all information required under Part 3, Section II - Financial Bid.

Canada reserves the right to request information to support any bid requirement. The Bidder is instructed to address each requirement in sufficient depth to permit a complete analysis and assessment by the Evaluation Team. The Bid will be deemed responsive if it is found to meet all the mandatory requirements.

4.1.1 Evaluation of Price

SACC Manual Clause A0220T (2013-04-25) Evaluation of Price

4.2 Basis of Selection

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

Bidders should note that all contract awards are subject to Canada's internal approvals process, which includes a requirement to approve funding in the amount of any proposed Contract. Notwithstanding that a Bidder may have been recommended for award of Contract, issuance of any Contract will be contingent upon internal approval in accordance with Canada's policies. If such approval is not given, no Contract will be awarded.

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.

5.1 Mandatory - Certifications Required Precedent to Contract Award

5.1.1 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.

Refer to Annex "E1" for Deliverables/Certifications

PART 6 - FINANCIAL AND OTHER REQUIREMENTS

6.1 Letter of Good Standing

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

The bidder must provide with the bid, a certificate or letter from the applicable Worker's Compensation Board confirming the Bidder's good standing account. Failure to comply with the request may result in the bid being declared non-responsive.

Refer to Annex "E1" for Deliverables/Certifications.

6.2 Valid Labour Agreement

If the Bidder has a labour agreement, or other suitable instrument, in place with all its unionized labour, it must be valid for the proposed period of any resulting contract. Documentary evidence of the agreement or suitable instrument must be provided on or before bid closing date. If this information is not provided with the bid it will render the bid non-responsive.

Refer to Annex "E1" for Deliverables/Certifications

6.3 Insurance Requirements

The Bidder must provide with its bid a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as a result of the bid solicitation, can be insured in accordance with the Insurance Requirements specified in Annex "C". If this information is not provided with the bid it will render the bid non-responsive.

Refer to Annex "E1", Deliverables/Certifications.

6.4 Contractor Contacts

Name and Telephone numbers of person responsible for:

General Enquiries:

Name	_____	Telephone Number	_____
Fax Number	_____	E-mail Address	_____

Refer to Annex "E1" for Deliverables/Certifications.

6.5 Preliminary Work Schedule

At the time of bid closing the Bidder must submit to Canada one (1) copy of its preliminary production work schedule. This schedule is to show the commencement and completion dates for the Work in the available work period, including realistic target dates for significant events.

Refer to Annex "E1", Deliverables/Certifications.

PART 7 - RESULTING CONTRACT CLAUSES

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

7.1 Requirement

The Contractor must perform a survey of main rotating electrical propulsion machinery and propulsion transformers onboard the T1100 vessels, including the CCGS Sir William Alexander, CCGS Edward Cornwallis and CCGS Pearkes, all in accordance with the associated Statement of Work for T1100 Vessels detailed in Annex "A".

7.2 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.

7.2.1 General Conditions

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

7.2.2 Supplemental General Conditions

1029 (2010-08-16) Ship Repairs, apply to and form part of the Contract.

7.3 Work Period - Marine

NOTE: Work is to be performed during the vessel's layup periods as follows (Dates are pending operational requirements)

<u>Vessel</u>	<u>Commence</u>	<u>Completion of the On-Site Work</u>
CCGS Sir William Alexander	June 2014	July 2014
CCGS Edward Cornwallis	August 2014	September 2014
CCGS George R. Pearkes	September 2014	October 2014

By submitting a bid, the Bidder certifies that they have sufficient materiel and human resources allocated or available and that the above work period is adequate to both complete the known work.

7.4 Authorities

7.4.1 Contracting Authority

The Contracting Authority for the Contract is:

David E. Avery
Department of Public Works and Government Services Canada (PWGSC)
Acquisitions Branch
Marine Sector
Marine Systems Directorate
PWGSC, 6C2 Place du Portage, Phase III
11 Laurier Street,
Gatineau, Quebec, K1A 0S5
Tel: (819) 956-5939 Fax: (819) 956-0897
E-Mail - david.e.avery@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.

7.4.2 Technical Authority

The on site Technical Authority for the Contract is:

Troy Roode
5th Level
CCG Atlantic Region Dartmouth Office - 50 Discovery Drive
Dartmouth, Nova Scotia B2Y 4A2
Tel: (902) 483-2070
E-Mail - Troy.Roode@dfo-mpo.gc.ca

The Technical 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 Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

7.5 Payment

7.5.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in the Basis of Payment Annex " B" for the Known Work. 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.

7.5.2 Method of Payment - Milestone Payments

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract if:

- a) an accurate and complete claim for payment using PWGSC-TPSGC 1111, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b) all the certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives;
- c) all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

7.5.3 Schedule of Milestones

The schedule of milestones for which payments will be made in accordance with the Contract is as follows:

Milestone No.	Deliverable	Firm Amount	Anticipated Delivery Date
1	CCGS Sir William Alexander after receipt of all deliverables as per Statement of Work Item 3.7 Deliverables	To be determined at Contract Award	July 2014
2	CCGS Edward Cornwallis after receipt of all deliverables as per Statement of Work Item 3.7 Deliverables	To be determined at Contract Award	September 2014
3	CCGS George R. Pearkes after receipt of all deliverables as per Statement of Work Item 3.7 Deliverables	To be determined at Contract Award	October 2014

7.5.4 Limitation of Price

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

7.5.5 Time Verification

SACC Manual Clause C0711C (2008-05-12) Time Verification

7.5.6 Lien - Section 427 of the Bank Act

SACC Manual Clause H4500C (2010-01-11) Lien - Section 427 of the Bank Act

7.6 Invoicing Instructions

7.6.1 Invoicing Instructions - Progress Payment Claim

- The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111, Claim for Progress Payment.

Each claim must show:

- all information required on form PWGSC-TPSGC 1111;
- all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- the description and value of the milestone claimed as detailed in the Contract.

Each claim must be supported by:

- a copy of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;

2. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Contracting Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Contracting Authority will then forward the original and two (2) copies of the claim to the Technical Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

3. The Contractor must not submit claims until all work identified in the claim is completed.

7.6.2 Invoices

1. Invoices are to be made out to:

Department of Fisheries and Oceans
VLE MLM Program
Integrated Technical Services
200 Kent Street,
Stn. 7N157
Ottawa, Ontario
K1A 0E6

And

The original invoice to be forwarded for verification to:

Department of Public Works and Government Services Canada (PWGSC)
Acquisitions Branch
Marine Sector, Marine Systems Directorate
PWGSC, 6C2 Place du Portage, Phase III
11 Laurier Street,
Gatineau, Quebec, K1A 0S5
Attention: David Avery

2. Canada will only make payment upon receipt of a satisfactory invoice duly supported by specified release documents and any other documents called for under the Contract.
3. The Contractor shall not submit an invoice prior to the completion and acceptance of the Work or shipment of the items to which it relates.

7.7 Certifications

7.7.1 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.

7.8 Applicable Laws

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

7.9 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the Supplemental General Conditions 1029, (2010-08-16), Ship Repairs;
- (c) the General Conditions 2030, (2013-06-01), General Conditions - Higher Complexity - Goods;
- (d) Annex "A", Statement of Work;
- (e) Annex "B", Basis of Payment;
- (f) Annex "C", Insurance Requirements;
- (g) Annex "D", Financial Bid Presentation Sheet;
- (h) Annex "E", Deliverables/Certifications
- (i) the Contractor's bid dated _____ (insert date of bid), as amended _____ (insert date(s) of amendment(s) if applicable)

7.10 Insurance Requirements

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

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

The Contractor must forward to the Contracting Authority within five **(5) working days** after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

Refer to Annex "E2" for Deliverables/Certifications.

7.11 Limitation of Contractor's Liability for Damages to Canada

1. This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees.
2. Whether the claim is based in contract, tort, or another cause of action, the Contractor's liability for all damages suffered by Canada caused by the Contractor's performance of or failure to perform the Contract is limited to \$10,000,000.00 per incident or occurrence, to an annual aggregate of \$20,000,000 for damages caused in any one year of carrying out of the Contract, each such year starting on the date of coming into force of the Contract or its anniversary, and to a total maximum liability of \$40,000,000.00. This limitation of the Contractor's liability does not apply to:
 - a) any infringement of intellectual property rights; or
 - b) any breach of warranty obligations.
3. Despite the above, this article does not require Canada to reimburse the Contractor for amounts that the Contractor is required by law to pay directly to any third party, even if those amounts are for damages that relate to the Contractor's performance of or failure to perform the Contract. Canada is not required to defend the Contractor against any third party claims made directly against the Contractor, even if Canada is also a party to the litigation.

7.12 Procedures for Design Change or Additional Work

These procedures must be followed for any design change or additional work.

1. When Canada requests design change or additional work:
 - (a) The Technical Authority will provide the Contracting Authority with a description of the design change or additional work in sufficient detail to allow the Contractor to provide the following information:
 - (i) any impact of the design change or additional work on the requirement of the Contract;
 - (ii) a price breakdown of the cost (increase or decrease) associated with the implementation of the design change or the performance of the additional work using either the form PWGSC-TPSGC 1686, Quotation for Design Change or Additional Work, or the form PWGSC-TPSGC 1379 Work Arising or New Work.
 - (iii) a schedule to implement the design change or to perform the additional work and the impact on the contract delivery schedule.
 - (b) The Contracting Authority will then forward this information to the Contractor.
 - (c) The Contractor will return the completed form to the Contracting Authority for evaluation and negotiation. Once agreement has been reached, the form must be signed by all parties in the appropriate signature blocks. This constitutes the written authorization for the Contractor to proceed with the work, and the Contract will be amended accordingly.

2. When the Contractor requests design change or additional work:

- (a) The Contractor must provide the Contracting Authority with a request for design change or additional work in sufficient detail for review by Canada.
 - (b) The Contracting Authority will forward the request to the Technical Authority for review.
 - (c) If Canada agrees that a design change or additional work is required, then the procedures detailed in paragraph 1 are to be followed.
 - (d) The Contracting Authority will inform the Contractor in writing if Canada determines that the design change or additional work is not required.
3. The Contractor must not proceed with any design change or additional work without the written authorization of the Contracting Authority. Any work performed without the Contracting Authority's written authorization will be considered outside the scope of the Contract and no payment will be made for such work.

7.13 Site Regulations

The Contractor must comply with all rules, instructions and directives in force on the site where the Work is performed.

7.14 Workers Compensation

The Contractor must maintain its account in good standing with the applicable provincial or territorial Workers' Compensation Board for the duration of the Contract.

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ANNEX “A”

CONDITION SURVEY OF PROPULSION MOTORS, GENERATORS AND TRANSFORMERS

STATEMENT OF WORK FOR T1100 VESSELS

- **CCGS SIR WILLIAM ALEXANDER**
- **CCGS EDWARD CORNWALLIS**
- **CCGS GEORGE R. PEARKES**

JANUARY 2014

ANNEX "B"**BASIS OF PAYMENT PRICE****B1 Contract Firm Price for Canadian Coast Guard Vessels CCGS Sir William Alexander, CCGS Edward Cornwallis and CCGS George R. Pearkes including Travel & Living Expenses**

A)	Known Work For work as stated in Part 1 Clause 1.2, Specified in Annex "A", for a FIRM PRICE of:	
i)	CCGS Sir William Alexander/including Travel and Living Expenses to complete the work	\$ _____
	Applicable Taxes	\$ _____
	Total Milestone 1	\$ _____
ii)	CCGS Edward Cornwallis/including Travel and Living Expenses to complete the work	\$ _____
	Applicable Taxes.	\$ _____
	Total Milestone 2	\$ _____
iii)	CCGS George R. Pearkes/including Travel and Living Expenses to complete the work	\$ _____
	Applicable Taxes	\$ _____
	Total Milestone 3	\$ _____
B)	Applicable Taxes of line Ai), Aii) & Aiii) only	\$ _____
C)	Total Firm Price For Canadian Coast Guard Vessels CCGS Sir William Alexander, CCGS Edward Cornwallis and CCGS George R. Pearkes Applicable Taxes Included:	\$ _____

ANNEX "C"**INSURANCE REQUIREMENTS****D.1 Commercial General Liability Insurance**

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$10,000,000 per accident or occurrence and \$20,000,000 in the annual aggregate.
2. The Commercial General Liability Insurance policy must include the following:
 - (a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
 - (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - (c) Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
 - (d) Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - (e) Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - (f) Employees and, if applicable, Volunteers must be included as Additional Insured.
 - (g) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
 - (h) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - (i) If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.

(j) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.

(k) Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.

NOTE: - Contractors whose operations including only incidental work aboard ships may not carry a stand-alone policy for Ship Repairer's Liability. For this Contract, an optional clause must be added to Contractors General Liability policy, which can be extended to include operations on board ships.

(l) Amendment to the Watercraft Exclusion to extend to incidental repair operations on board watercraft.

ANNEX "D"**Financial Bid Presentation Sheet****D1 Price for Evaluation**

A)	Known Work For work as stated in Part 1 Clause 1.2, Specified in Annex "A", for a FIRM PRICE of:	
i)	CCGS Sir William Alexander	\$ _____
	Travel and Living Expenses to complete the work	\$ _____
	Total	\$ _____
ii)	CCGS Edward Cornwallis	\$ _____
	Travel and Living Expenses to complete the work	\$ _____
	Total	\$ _____
iii)	CCGS George R. Pearkes	\$ _____
	Travel and Living Expenses to complete the work	\$ _____
	Total	\$ _____
B)	Evaluation Price (Applicable Taxes Excluded), [Ai + Aii,+ Aiii] For an Evaluation Price of (Applicable Taxes Excluded):	\$ _____

ANNEX "E"**DELIVERABLES/CERTIFICATIONS****E1 Mandatory Tender Deliverables Check List**

Notwithstanding deliverable requirements specified within the bid solicitation and its associated Technical Specification (Annex A), mandatory deliverables that must be submitted with the Bidder's tender to be deemed responsive are summarized below.

The Bidder must submit a completed Annex "E1" Deliverables/ Certifications.

The following are mandatory and the Bidder's submission will be evaluated against the requirements as defined herein. The Bidder must be determined to be compliant on each item to be considered responsive.

Item	Description	Completed and Attached
1	Invitation To Tender document part 1 page 1 completed and signed;	
2	Completed Annex "D" Financial Bid Presentation Sheet	
3	Completed Annex "E1& E2" Deliverables/Certifications	
4	Changes to Applicable Laws (if any), as per clause 2.4	
5	Submission of Code of Conduct - List of Directors as per, clause 5.1.1 and attached as Annex "F "	
6	Proof of Good Standing with Worker's Compensation Board, as per clause 6.1	
7	Proof of Valid Labor Agreement or similar instrument covering the work period, as per clause 6.2	
8	Insurance Requirements, as per clause 6.3 and Annex "C"	
9	Contractor Contacts, as per clause 6.4	
10	Preliminary Work Schedule, as per clause 6.5	
	Mandatory Technical Criteria Requirements - As Per Statement of Work Attached as Annex "A"	
11	Previous Similar Projects as per Clause 4.2.1 of Statement of Work - Annex "A"	
12	Certification and Experience of Key Personnel as per Clause 4.2.2 of Statement of Work - Annex "A"	
13	Contractor Experience as per Clause 4.2.3 of Statement of Work - Annex "A"	
14	Proposed Approach to Work as per Clause 4.2.4 of Statement of Work - Annex "A"	
15	Planned Time Frame as per Clause 4.2.5 of Statement of Work - Annex "A"	
16	Quality Management System as per Clause 4.2.6 of Statement of Work - Annex "A"	

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E2 Deliverables after Contract Award

Item	Description	Reference	Due By
1	Insurance requirements	Clause 7.10 and Annex "C"	5 Working Days after contract award
2	Revised Work Schedule	Clause 3.1.6 of Statement of Work	14 calendar days after contract award

ANNEX "F"

Code of Conduct - List of Directors

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

ANNEX "G"**PROCEDURE FOR PROCESSING UNSCHEDULED WORK****1. Purpose**

The Unscheduled Work Procedure has been instituted for the following purposes:

- a. To establish a uniform method of dealing with requests for Unscheduled Work;
- b. To obtain the necessary Technical Authority approval and Contracting Authority authorization before Unscheduled Work commences;
- c. To provide a means of maintaining a record of Unscheduled Work requirements including Serial Numbers, dates, and accumulated cost. The Contractor shall have a cost accounting system that is capable of assigning job numbers for each Unscheduled Work requirement so that each requirement can be audited individually.

2. Definitions

- a. An Unscheduled Work Procedure is a contractual procedure whereby changes to the scope of Work under the Contract may be defined, priced and contractually agreed to. Such changes may arise from;
 - i. "Work Arising" from opening up of machinery and/or surveys of equipment and material, or
 - ii. "New Work" not initially specified but required on the Vessel.
- b. The procedure does not allow for the correction of deficiencies in the Contractor's Bid.
- c. No unscheduled work may be undertaken by the Contractor without written authorization of the Contracting Authority except under emergency circumstances described in Sub. Paragraph 3(b). Unscheduled Work
- d. Work undertaken without written Contracting Authority authorization will be considered the Contractor's responsibility and cost.
- e. The appropriate PWGSC form is the final summary of the definition of the Unscheduled Work requirement, and the costs negotiated and agreed to.

3. Procedures

- a. The procedure involves the electronic form PWGSC 1379 for refit and repair and will be the only form for authorizing all Unscheduled Work.
- b. Emergency measures required to prevent loss or damage to the Vessel which would occur if this procedure were followed, shall be taken by the Contractor on its own authority. The responsibility for the cost of such measures shall be determined in accordance with the terms and conditions of the Contract.
- c. The Technical Authority will initiate a work estimate request by defining the Unscheduled Work requirement. It will attach drawings, sketches, additional specifications, other clarifying details as appropriate, and allocate their Serial Number for the request.

d. Notwithstanding the foregoing, the Contractor may propose to the Technical Authority in writing, either by letter or some type of Defect Advice Form (this is the Contractor's own form) that certain Unscheduled Work should be carried out.

e. The Technical Authority will either reject or accept such Proposal, and advise the Contractor and Contracting Authority. Acceptance of the Proposal is not to be construed as authorization for the work to proceed. If required, the Technical Authority will then define the Unscheduled Work requirement in accordance with Sub. Paragraph 3.(c).

f. The Contractor will electronically submit its Proposal to the Contracting Authority together with all price support, any qualifications, remarks or other information requested.

The price support shall demonstrate the relationship between the scope of work, the Contractor's estimated costs and its selling price. It is a breakdown of the Contractor's unit rates, estimates of person hours by trade, estimate of material cost per item for both the contractor and all of its subcontractors including quotations, estimates of any related schedule impact and an evaluation of the contractor's time required to perform the Unscheduled Work.

g. The Contractor shall provide copies of purchase orders and paid invoices for Subcontracts and/or materials, including stocked items, in either case. The Contractor shall provide a minimum of two quotations for Subcontracts or materials. If other than the lowest, or sole source is being recommended for quality and/or delivery considerations, this shall be noted. On request to the Contractor, the Contracting Authority shall be permitted, to meet with any proposed Subcontractor or material supplier for discussion of the price and always with the Contractor's representative present.

h. After discussion between the Contracting Authority and the Contractor and if no negotiation is required, the Contracting Authority will seek Technical Authority confirmation to proceed by signing the form. The Contracting Authority will then sign and authorize the Unscheduled Work to proceed.

i. In the event the Technical Authority does not wish to proceed with the work, it will cancel the proposed Unscheduled Work through the Contracting Authority in writing.

j. In the event the negotiation involves a Credit, the appropriate PWGSC form will be noted as "credit" accordingly.

k. In the event that the Technical Authority requires Unscheduled Work of an urgent nature or an impasse has occurred in negotiations, the commencement of the Unscheduled Work should not be unduly delayed and should be processed as follows, in either case. The Contractor will complete the appropriate PWGSC 1379 form indicating the offered cost and pass it to the Contracting Authority. If the Technical Authority wishes to proceed, the Technical Authority and the Contracting Authority will sign the completed PWGSC form with the notation, "CEILING PRICE SUBJECT TO DOWNWARD ADJUSTMENT", and allocate a Serial Number having the suffix "A". The work will proceed with the understanding that following an audit of the Contractor's actual costs for completing the described work, the cost will be finalized at the ceiling price or lower, if justified by the audit. A new PWGSC form will then be completed with the finalized costs, signed and issued with the same Serial Number without the suffix "A", and bearing a notation that this form is replacing and canceling the form having the same Serial Number with the suffix "A".

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NOTE:

PWGSC forms bearing Serial Numbers with a suffix "A" shall not to be included in any contract amendments, and therefore no payment shall be made until final resolution of the price and incorporation into the contract.

4. Amendment to Contract or Formal Agreement

The Contract will be amended from time to time in accordance with the Contract terms to incorporate the costs authorized on the appropriate PWGSC forms.



Condition Survey of Propulsion Motors, Generators and Transformers

Statement of Work for T1100 Vessels

- **CCGS Sir William Alexander**
- **CCGS Edward Cornwallis**
- **CCGS George Pearkes**

January, 2014

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1.0 GENERAL NOTES

1.1 Identification

- 1.1.1 These General Notes describe the CCG requirements applicable to all accompanying Technical Specifications.

1.2 References

- 1.2.1 Applicable regulations and documentation:

Fleet Safety and Security Manual (FSSM) Procedures	
Section	Title
7.B.2.	Fall Protection
7.B.3	Hazard Prevention Program
7.D.9	Entry Into Confined Spaces
7.D.11	Hotwork
7.D.19	Lockout and Tagout
7.F.6	Handling, Storage & Disposal of Hazardous Material
7.F.9	Paint and Other Coatings
7.F.10	Controlling Halocarbon Use Aboard Ships
10.A.2	Contractor Liability
Ship Specific	Vessel Specific - Asbestos Management Plan
Publications	
TP3177E	Standard for the Control of Gas Hazards in Vessels to be Repaired or Altered
T127E	Transport Canada Marine Safety Electrical Standard
IEEE 45	Recommended Practice for Electrical Installation on Ships
70-000-000-EU-JA-001	Specification for the Installation of Shipboard Electronic Equipment
CSA W47.1	Certification of Companies for Fusion Welding of Steel Structures Division 2 Certification
CSA W47.2	Certification of Companies for Fusion Welding of Aluminum
CSA W59	Welded Steel Construction – Metal Arc Welding
CSA W59.2	Welded Aluminum Construction
Acts	
CSA	Canada Shipping Act
CLC	Canada Labour Code
Regulations	
MOHS	Maritime Occupational Health and Safety

1.3 Occupational Health and Safety

- 1.3.1 The Contractor and all sub-contractors shall follow Occupational Health and Safety (OHS) procedures in accordance with applicable federal and provincial OHS regulations ensuring that Contractor activities are carried out in a safe manner and do not endanger the safety of any personnel.
- 1.3.2 The Contractor and the Contractor's employees, including any sub-contractors shall attend a safety orientation meeting of the vessel prior to the commencement of any work in order to

familiarize the Contractor's employees with ship specific hazards and permit systems for work protocols as well as procedures for Security, Hazard Prevention, Hazard Intervention and Pre-Job Safety Assessments. The Contractor will have access to an uncontrolled copy of the Fleet Safety and Security Manual.

- 1.3.3 The Contractor shall comply with the Fleet Safety and Security Manual, DFO/5737 and shipboard work instructions in addition to the applicable Canada Labour Code regulations while performing work involving the following;
- Hot Work;
 - Work Aloft;
 - Confined Space Entry;
 - Gas Freeing for Entry and Hot Work;
 - Lock Out/Tag Out;
 - Pre-Job Safety Assessments.
- 1.3.4 For the purpose of the Lock Out/Tag Out procedure the Contractor shall supply locks and locking devices for the Contractor's employees in addition to those provided by the Chief Engineer for the ship's crew.
- 1.3.5 The Contractor and Contractor's employees will not have access to the vessel's washrooms and crew mess facilities. The Contractor shall provide the necessary amenities for the Contractor's and sub-contractors employees as required.

1.4 Access to Worksite

- 1.4.1 The Contractor shall ensure the Technical Authority (TA) and Coast Guard staff has unrestricted access to the worksite at all times during the contract period.

1.5 Workplace Hazardous Materials Information System (WHIMS)

- 1.5.1 The Contractor must provide the TA with Material Safety Data Sheets (MSDS) for all Contractor supplied WHIMS controlled products.
- 1.5.2 The TA will provide the Contractor with access to MSD sheets for all controlled products on the ship for all specified work items.

1.6 Smoking in the Work Space

- 1.6.1 The Contractor must ensure compliance with the Non- Smokers' Health Act. The Contractor shall ensure that every employer, and any person acting on behalf of an employer, shall ensure that persons refrain from smoking in any work space under the control of the employer. The Contractor shall ensure that there is absolutely no smoking onboard the vessel.

1.7 Clean and Hazard Free Worksite

- 1.7.1 Before the Contractor starts any work on the vessel the Contractor's Quality Assurance Representative, the TA shall walk through each space and area where work is to take place, including access and removal routes and areas adjacent to those where the work is to be done as a result of this specification. The Contractor's Quality Assurance Representative

shall take digital pictures of each area showing the outfit therein and download the photos in JPG format onto a CD or DVD. Each picture shall be dated and labeled as to the location on the vessel. Copies of this CD or DVD are to be provided to the TA for reference purposes within 48 hours of the start of the contract.

- 1.7.2 The Contractor, during the work period shall maintain those areas of the vessel which Contractor personnel use to access those areas where work is to be undertaken, in a clean condition, free from debris and remove garbage daily.
- 1.7.3 Areas that pose a hazard as a result of the specification work are to be secured and clearly identified by the Contractor with signage to advise and protect all personnel from the hazard in accordance with applicable Canada Labour Code requirements.
- 1.7.4 Upon completion of this contract, the Contractor shall be responsible for the removal of all garbage generated from the work of this specification and for returning the vessel to the state of cleanliness in which the vessel was at the start of the contract period.
- 1.7.5 Once all known work and final clean-up has been completed the Contractor's QA Representative, the TA shall perform a 'walk through' of the vessel to view all areas where work was performed by the Contractor. Any deficiencies or damage noted shall be recorded and compared to the photos and if deemed to have been caused by the Contractor as a result of the work the damage shall be repaired by the Contractor at no cost to the Coast Guard.

1.8 Fire Protection

- 1.8.1 The Contractor must ensure the isolation, removal and installation of fire detection and suppression systems or any components thereof, is performed by a qualified technician. When the fire detection or fire suppression system is deactivated or disabled by the Contractor during the contract, the system(s) must be recertified by a qualified technician as fully functional. A signed and dated original copy of the certificate must be delivered to the TA before the end of the contract.
- 1.8.2 The Contractor must notify the TA and obtain written approval from the TA prior to disturbing, removing, isolating, deactivating / disabling or locking out any part of the fire detection or suppression systems, including heat and smoke sensors.
- 1.8.3 The Contractor must ensure protection against fire at all times including when working on the ship's fire detection and / or suppression system(s). This may be accomplished as suggested below and only with the written permission of the TA:
 - Disabling only one portion of a system at a time;
 - By maintaining system function using spares while work is in progress;
 - Other means acceptable to and approved by the TA.
- 1.8.4 The Contractor must note that failure to take the necessary precautions while performing work on the vessel's fire suppression system(s) could result in the accidental discharge of the fire suppression agent(s). The Contractor must recharge and certify at his cost, container(s) or systems that are discharged as a result of such work.

1.9 Touch-up / Disturbed Paint

- 1.9.1 Unless stated otherwise, all new or disturbed steelwork is to have two coats of marine primer, compatible with the vessel's existing coating schedule.

- 1.9.2 The Contractor must prepare all new and disturbed steelwork to the paint manufacturer's standards prior to painting.

1.10 CCG Employees and Others on the Vessel

- 1.10.1 CCG / DFO employees and other personnel such as manufacturer's representatives and/or TCMS or Class surveyors may carry-out other work including work items not included in this specification, onboard the vessel during this work period. Every effort will be made by the TA to ensure this work and the associated inspections and/or surveys do not interfere with the Contractor's work. The Contractor will not be responsible for coordinating the related inspections or payment of inspection fees for this work unless otherwise specified.

1.11 Regulatory Inspections and/or Class Surveys

- 1.11.1 The Contractor shall contact, coordinate and schedule all regulatory inspections and/or class surveys by the applicable authority: i.e. TCMS, HC, Environment Canada or others as required by the specification.
- 1.11.2 Any documentation generated by the above inspections and/or surveys to show that the inspections and/or surveys were conducted (i.e. original signed and dated certificates) must be provided to the TA.
- 1.11.3 The Contractor must not substitute inspection by the TA for the required regulatory inspections or class surveys.
- 1.11.4 The Contractor must provide timely advance notification (minimum of 24 hours) of scheduled regulatory inspections and/or class surveys to the TA so they may witness the inspection.

1.12 Test Results and Data Book

- 1.12.1 The Contractor shall develop a Test and Trials Plan which shall include as a minimum, all tests and trials stated in the specification. This plan shall be provided for TA review 2 week(s) prior to the originally scheduled Tests and Trials commencement.
- 1.12.2 All tests, measurements, calibrations and readings must be recorded, signed by the person taking the measurements, dated and provided in report format both in hard copy and electronic format, to the TA, and TCMS.
- 1.12.3 Recorded dimensions shall be to a precision of three decimal places (unless otherwise stated) in the measuring system currently in use on the vessel.
- 1.12.4 The Contractor shall provide to the TA calibration certificates for all instrumentation used in the Test and Trials Plan showing that the instruments have been calibrated in accordance with the manufacturer's instructions.
- 1.12.5 Hard copy reports shall be bound, type written on letter size paper and indexed by specification number. Electronic copies shall be in unprotected PDF or MS format and provided on memory stick media. The Contractor shall provide 1 hard copy and 1 electronic copy of all reports.
- 1.12.6 All documentation from the contract period shall be inserted in a data book and delivered to the TA on completion of the contract.

1.13 Contractor Supplied Materials and Tools

- 1.13.1 The Contractor must ensure all materials are new and unused.
- 1.13.2 The Contractor must ensure replacement material such as jointing, packing, insulation, small hardware, oils, lubricants, cleaning solvents, preservatives, paints, coatings etc. are in accordance with the equipment manufacturer's drawings, manuals and/or instructions.
- 1.13.3 Where no particular item is specified or where substitution must be made, the TA must approve the substituted item in writing. The Contractor must provide information about materials used, certificate of grade and quality of various materials to the TA prior to use.
- 1.13.4 The Contractor shall provide all equipment, devices, tools and machinery such as crane, staging, scaffolding and rigging necessary for the completion of the work in this specification.
- 1.13.5 The Contractor shall provide waste disposal services for any oil, oily waste or other hazardous or controlled waste generated by the work of this specification. The Contractor shall provide waste disposal certificates for all of the above generated waste and the disposal certificates shall indicate that the disposal was in accordance with Federal, Provincial and Municipal regulations in effect.

1.14 Government Supplied Materials & Tools

- 1.14.1 All tools are Contractor supplied unless otherwise stated in the technical specifications.
- 1.14.2 Where tools are supplied by the TA they shall be returned by the Contractor in the same condition as when they were borrowed. Borrowed tools must be inventoried and signed for by the Contractor on receipt and return to the TA.
- 1.14.3 Any Government supplied material (GSM) shall be received by the Contractor and stored in a secure warehouse or storeroom having a controlled environment appropriate for the equipment as per manufacturer's instructions.

1.15 Restricted Areas

- 1.15.1 The Contractor must not enter the following areas except to perform work as required by the specifications: all cabins, offices, workshops, Engineers' office, Wheelhouse, Control Room, all washrooms, Galley, Mess Rooms, Lounge areas and any other areas restricted by signage.
- 1.15.2 The Contractor must give the TA 24 hours advance notice prior to working in any accommodation areas or office spaces. This will allow CCG adequate time to move personnel and secure the areas.

1.16 Contractor Inspections and Protection of Equipment and the Worksite

- 1.16.1 The Contractor must coordinate an inspection with the TA on the condition and location of items to be removed prior to carrying out the specified work or to gain access to a location to carry out the work.
- 1.16.2 The Contractor must repair or replace any item so damaged in this process. Materials used in any replacement or repairs must meet the criteria for Contractor supplied material noted above in section Contractor Supplied Materials and Tools.

- 1.16.3 The Contractor must protect all equipment and surrounding areas from damage. Work areas are to be protected from the ingress of water, welding and blasting grit etc. Temporary covers to work areas must be installed.

1.17 Recording of Work in Progress

- 1.17.1 The TA may record any work in progress using various means including, but not limited to photography and video, digital or film.

1.18 List of Confined Spaces

- 1.18.1 The Contractor may request a list of the vessel's identified confined spaces at the Pre-Refit meeting.

1.19 Lead Paint and Paint Coatings

- 1.19.1 The Contractor shall not use lead based paints.
- 1.19.2 CG ships have been painted with lead based paints in the past and as a result some of the Contractor's processes such as grinding, welding and burning may release this lead from the coatings. The Contractor shall ensure that work areas are tested for lead content and that the work is performed in accordance with applicable regulations.
- 1.19.3 The Contractor must provide HC product approval for underwater hull surface paints controlled by HC and the Pest Management Regulatory Agency.

1.20 Asbestos Containing Materials

- 1.20.1 The Contractor shall not use any asbestos containing materials.
- 1.20.2 Handling of any asbestos containing materials shall be performed by personnel trained and certified in the removal of asbestos in accordance with Federal, Provincial and Municipal regulations in effect and in accordance with the Fleet Safety and Security Manual. The Contractor shall provide the TA with disposal certificates for all asbestos containing material removed from the vessel indicating that the disposal was in accordance with Federal, Provincial and Municipal regulations in effect.

1.21 Removed Materials and Equipment

- 1.21.1 All removed equipment as a result of this specification shall remain the property of the Coast Guard unless otherwise instructed in the specification sections.

1.22 Welding Certification

- 1.22.1 For any work requiring the application of fusion welding for steel structures the Contractor and/or the sub-contractor welders shall be certified by the Canadian Welding Bureau in accordance with CSA Standards W47.1-03, latest revision – Certification of Companies for Fusion Welding of Steel Division 2 Certification as a minimum. Current copies of certification shall be provided to the IA.

1.23 Electrical Installations

- 1.23.1 All electrical installations and repairs shall be carried out in accordance with the latest revisions of Transport Canada Marine Safety Electrical Standard TP127E and IEEE Standard 45 Recommended Practice for Electrical Installation on Ships.

2.0 VESSEL PARTICULARS

TYPE 1100 - TYPICAL BUOY TENDER / LIGHT ICEBREAKER

Length:	83	m
Breadth:	16.2	m
Draft:	5.75	m
Freeboard:	1.71	m
Gross Tonnage:	3,727.17	grt
Net tonnage:	1,534.61	nrt
Cruising Speed:	13.7	kts
Maximum Speed:	16.0	kts
Cruising Range:	6,500	nm
Endurance:	120	days
Consumables	60	days
Fuel Consumption:	6.53	m3/day
Fuel Capacity:	793	tonnes
Vessel Type:	1100: Light Icebreaker/Major Nav aids Tender	
Port of Registry:	Ottawa	
Region:	Atlantic	
Home Port:	St. John's, NL and Dartmouth, NS	
Year Built:	1986, 1987	
Builder:	Marine Industries Ltée., Tracy PQ / Versatile Pacific Shipyard, Victoria BC	
Modernised:	--	
Complement:	Officers: 10 Crew: 15	
Total:	25	
Crewing Regime:	Lay-day	
Available Berths:	51	

3.0 SCOPE OF WORK

3.1 Preamble

- 3.1.1 The intent of this specification is to perform a survey of main rotating electrical propulsion machinery and propulsion transformers on the T1100 vessels, including the CCGS Sir William Alexander, CCGS Edward Cornwallis and CCGS George Pearkes. The context of this assessment is to highlight any deficiencies that may impact the intended 17+ year service life of the vessel.
- 3.1.2 Contractor is to perform a survey of the 3 propulsion generators, 2 propulsion motors and 2 propulsion transformers for each of the vessels. The Contractor is to give a detailed report of the mechanical and electrical condition for each piece of identified machinery, noting any defects or deficiencies.
- 3.1.3 The Contractor is to provide recommendations as to maintenance requirements to suit the expected remaining service life of the above items.
- 3.1.4 Contractor is to take into account replacement parts and service availability. Work is to be performed during the vessel's layup periods as follows (Note: Dates are pending operational requirements);

Vessel	Location	Date
CCGS Sir William Alexander	Dartmouth, NS at CCG base	June - July, 2014
CCGS Edward Cornwallis	To be determined. Bidder to assume Dartmouth, NS at CCG base.	August - September, 2014
CCGS George Pearkes	St. John's, NL at CCG base	September – October, 2014

- 3.1.5 The bid price is to include the travel and living expenses necessary to complete the work. Any travel expenses incurred as a result of a change to the vessel's location will be addressed through the PWGSC 1379 "Work Arising" process.
- 3.1.6 Contractor is to provide a detailed schedule of their intended work plan within (14) days of Contract Award. Contractor shall provide all labor, materials and equipment necessary for the performance of the work.

3.2 References

3.2.1 Equipment Data (Typical Data for all vessels)

3.2.1.1 Horizontal Synchronous Propulsion Motor

Make:	Canadian General Electric
Type:	AC Reversing Synchronous
Rating:	3500 HP Continuous, 1900 Volts
	2715 KVA, 3 Phase Wye, 825Amps
	14.4 – 18 Hz, 144 – 180 RPM, P.F. 1
Excitation:	437 V, 57 Amps, Overload 62 Amps
Frame:	6000

Service Factor:	1.1
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3.2.1.2 Horizontal Propulsion Generator

Make:	Canadian General Electric
Type:	ATI Synchronous, Fully Enclosed
Rating:	2625 KVA, 2100 KW, 2526 Amps
	600 Volts, 3 Phase, 60 Hz, 900 RPM
	0.8 Power Factor
Excitation:	116 Volts, 3.3 Amps
Frame:	6000

3.2.1.3 Propulsion Transformers

Type:	Dry Class F ANN Triple Secondary
	600/1100 Volts, 3 Phase, 60 Hz
Primary:	3400 KVA, 600 V, 3 Ph.
	Delta Connection
Secondary:	1400 KVA, 1100 V, 3 Ph.
	Delta Connection

3.2.2 Documents (Typical Data for all vessels)

Document Number	Description	Electronic Number
4005E1203CK	CGE Motor	
4005E1203CR	CGE Generator	
4004D1039AF	Propulsion Motor Converter Assembly	
4004D1041BJ	Propulsion Motor Exciter Assembly	
49519-7M	Michell Marine Thrust Block	
PGEI-11431	CGE Industrial AC Machines - T1100 Propulsion Generator Instruction Manual	
PGEI-11404	CGE Industrial AC Machines - T1100 Propulsion Motor Instruction Manual	
Instructions	Polygon Industries - T1100 Propulsion Transformer Instruction Manual	
Information	Edward Cornwallis Propulsion Data	
Information	Sir William Alexander Propulsion Data	
Information	George Pearkes Propulsion Data	

3.3 Regulations

- 3.3.1 All work performed must be compliant with the latest Canada Shipping Act Regulations and in particular to the Marine Machinery Regulations. All work shall meet Transport Canada approved Class Regulations. (Lloyd's Register of Shipping, American Bureau of Shipping, Germanischer Lloyd, Det Norske Veritas or Bureau Veritas).

3.4 Standards

- 3.4.1 The Contractor is to perform all of the following work and is to provide fully certified personnel acceptable to TCMS in accordance to latest revision of the Ship Safety Electrical Standards TP127E and IEEE Standard 45 Recommended Practice for Electrical Installation on Shipboard.
- 3.4.2 All work shall be completed in accordance with Canadian Coast Guard's Ship's ISM Fleet Safety and Security Manual concerning Hot Work, and Lock-Out and Tag-Out Procedures.

3.5 Technical Description

3.5.1 Propulsion Motors

- 3.5.1.1 Prior to commencement of inspection, existing Co2 bottle located next to each individual propulsion motor to be disconnected by a certified technician to prevent accidental discharge. System to be reconnected and commissioned before any live testing is to be performed.
- 3.5.1.2 Perform the Motor Circuit Evaluation test which includes insulation resistance, polarization Index, capacitance-to-ground, circuit inductance and winding resistance of stator, rotor and exciter windings. Procedures to be followed as per manufacturers recommendations as outlined in section 1-4 of the instruction manual. Insulation readings to be corrected as per insulation resistance temperature correction document Canadian General Electric TPP-8501.
- 3.5.1.3 Perform a visual inspection of the machine components for the presence of contamination by dust, dirt, moisture and foreign matter. The condition of all gaskets and covers are to be noted. Check interior of machine for loose and worn objects as well as visual inspection for cracks/metal fatigue. Check all wedges and connections for tightness. Check for signs of overheating, both local and general. For internal inspections, a video bore-scope with high definition video or still shots is to be utilized. See section 5 of instruction manual for details.
- 3.5.1.4 Perform the Air gap, the fore and aft readings, referring to Canadian General Electric drawing 4005E1203CK for procedure and acceptable readings for the rotor and exciter.
- 3.5.1.5 The Thrust and Pedestal bearing wear for the propulsion motors were checked during dry-docking in 2010 as part of existing refit spec. All readings, pictures and reports from this earlier inspection will be supplied and will be re-used by the contractor for assessment of these components.

- 3.5.1.6 Inspect the condition of Auxiliary gearbox on motors. See section 8 of instruction manual for details.
- 3.5.1.7 All exciter Diodes, Silicon Controlled Rectifier's and crowbar circuits to be checked electrically and for signs of mechanical damage as per section 7 in instruction manual. Also see Canadian General Electric drawing 4004D1039AF and 4004D1041BJ.
- 3.5.1.8 All cooling and makeup fans to be inspected. See section 9 of instruction manual for details.
- 3.5.1.9 Water to Air coolers to be inspected and tested as per manufactures recommendations. Leak detectors are to be tested for correct operation. See section 8 of instruction manual for details.
- 3.5.1.10 All Connection boxes are to be inspected for electrical and mechanical soundness.
- 3.5.1.11 Anti-condensation Heaters, insulation resistance, voltage and current readings are to be obtained.
- 3.5.1.12 All Resistive temperature detectors are to be checked for correct operation.
- 3.5.1.13 Vibration analysis readings of equipment and sub components are to be recorded; Reference maximum values as per section 4 in instruction manual.

3.5.2 Generators

- 3.5.2.1 Vibration analysis readings of the generators to be recorded. Reference the maximum values in section 4 of manual.
- 3.5.2.2 Prior to commencement of inspection, existing Co2 bottle located next to each individual propulsion motor to be disconnected by a certified technician to prevent accidental discharge. System to be reconnected and commissioned before any live testing is to be performed.
- 3.5.2.3 Perform the Insulation and Polarization Index resistance of all windings, stators, rotors, exciters as per manufacturers recommendations as outlined in section 1-4 of the Instruction manuals. Winding resistances are to also be recorded. Insulation readings to be corrected as per insulation resistance temperature correction document Canadian General Electric TPP-8501.
- 3.5.2.4 Perform a visual inspection of the machine components, for the presence of contamination by dust, dirt, moisture and foreign matter. The condition of all gaskets and covers are to be noted. Check interior of machine for loose and worn objects as well as visual inspection for cracks/metal fatigue. Check all wedges and connections for tightness. Check for signs of overheating, both local and general. For internal inspections, a video bore-scope with high definition video or still shots is to be utilized. See section 5 of instruction manual for details.

- 3.5.2.6 Perform the Air gap, the fore and aft readings, referring to Canadian General Electric drawing 4005E1203CR for procedure and acceptable readings for the rotor and exciter.
- 3.5.2.6 Pedestal bearing wear down reading to be taken using Canadian Coast Guard supplied gauge. Rotor and exciter air-gap readings are to be taken fore and aft.
- 3.5.2.7 All exciter Diodes, SCR's and crowbar circuits to be checked as per section 7 of instruction manual.
- 3.5.2.8 Unifin water to air coolers to be inspected and tested as per manufactures recommendations in section 8 of instruction manual. Leak detectors are to be tested for correct operation.
- 3.5.2.9 All Connection boxes to be inspected for electrical and mechanical soundness
- 3.5.2.10 Anti-condensation Heaters, insulation resistance, voltage and current readings are to be obtained.
- 3.5.2.11 All Resistance Temperature Detectors are to be checked for correct operation.
- 3.5.2.12 All Current Transformers are to be checked for correct operation/mechanical damage.

3.5.3 Propulsion Transformers

- 3.5.3.1 The following tests are to be carried out as part of the inspection:
 - Insulation Resistance Measurement
 - Winding Resistance Measurement
 - Magnetic Current Test
 - Magnetic Balance Test
- 3.5.3.2 The cooling system is to be inspected and all cooler circuits to be checked for temperature fan activation, alarm and trip circuits.
- 3.5.3.3 All Resistive temperature detectors are to be checked for correct operation.
- 3.5.3.4 Perform a visual inspection of insulation and bolted connections/fasteners. For internal inspections, a video bore-scope with high definition video or still shots is to be utilized.

3.6 Proof of Performance

3.6.1 Testing/Trials

- 3.6.1.1 Live testing is to be conducted before and after Contractor inspections and assessments to ensure no damage has occurred. Chief Engineer must be given 48 hours' notice prior to live testing. Vessel staff will be available to run up machinery to permit Contractor observations.

3.6.2 Machinery Lock Out, Open Up and Close Up for Access

- 3.6.2.1 Contractor shall provide lock out of machinery as per regulations. Contractor is responsible for disassembly and reassembly of machinery and equipment, as necessary for the performance of the work.

3.7 Deliverables

- 3.7.1 The Contractor shall supply the Canadian Coast Guard Technical authority with a final report that details the findings of the survey as broken down by each machine. All readings, videos (electronic only), photos, tests, defects and findings are to be included. This deliverable shall be provided within (14) calendar days of completion of the on-site work. The contractor shall supply one (1) hard-copy in 8 ½ x 11 format and one (1) Electronic copy in Microsoft 2010 format.
- 3.7.2 The Contractor is to review the condition of the machines and to provide assessments of the current condition of the machinery and provide expert recommendations regarding the short term and long term maintenance requirements necessary to meet an intended service life of 17+ years. This deliverable shall be provided within (14) calendar days of completion of the on-site work. The contractor shall supply one (1) hard-copy in 8 ½ x 11 format and one (1) Electronic copy in Microsoft 2010 format.
- 3.7.3 Contractor is to provide a detailed schedule of their intended work plan within (14) days of Contract Award. Contractor shall provide all labor, materials and equipment necessary for the performance of the work.

4.0 BID PREPARATION

4.1 Technical Bid Preparation

4.1.1 In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

4.1.2 Bidders should structure the contents of the proposal as follows:

- Previous Similar Projects
- Education and Experience of Key Personnel
- Proposed Approach to Work
- Schedule of work showing the time frame for completion.

4.2 Mandatory Technical Criteria Requirements

4.2.1 Previous Similar Projects - The Bidder must provide a minimum of 3 projects of a similar nature to the work of this bid solicitation, undertaken within the last 10 years. By similar it is meant that;

- Ship is of a comparable size, and
- Project was a condition survey study, and
- Propulsion system is of comparable size or larger.

For each previous project submitted, the Bidder should describe the following:

- Name of ship, length and displacement, type and size of deployable unit or machinery involved.
- Brief description of the intent of the project (e.g. was it a repair, a survey, or other).
- Discuss the details of the testing carried out.
- Provide client references: name, address, phone and fax of client contact. Canada may check references.

4.2.2 Certification and Experience of Key Personnel - The Bidder should describe the number of personnel intended to be deployed on this work, with position titles and names. Indicate each person's responsibilities. All personnel to perform testing are to be certified and certificates may be requested for all individuals prior to award.

4.2.3 Contractor Experience - Demonstrate experience of working with marine medium voltage 1145V systems, synchronous motors of 3500HP or above, large diesel driven generators above 2.1MW at 600V and dry-type-transformers of 3400KVA or larger. (Experience shown in samples of work provided). Provide the voltage and horsepower ratings of the motors, generators and transformers.

4.2.4 Proposed Approach to Work - The Bidder should describe their understanding of the functional and technical requirements of the work of this bid solicitation. Technical responses shall include a narrative description of their proposed testing methodologies to be carried out.

4.2.5 Planned Time Frame - The Bidder must provide a schedule for the work of this bid solicitation showing how he or she would plan and execute the work of this contract in order to meet the time requirements.

- Ensure all tasks and the time required for them is clearly shown.
- Include the deliverables in the schedule.

4.2.6 Quality Management System - As part of their Bid, the Bidder must submit proof of registration to ISO 9001 or other quality system. Alternatively, if not registered to ISO 9001 or other quality system, the Bidder must supply a description of the proposed Quality Management System and a sample of the quality review or inspection sheets used for quality control from a recently completed project.