

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

Title - Sujet REPAIR CONTROLLABLE PITCH PROPELLER	
Solicitation No. - N° de l'invitation F2599-120023/A	Date 2012-03-15
Client Reference No. - N° de référence du client F2599-120023	GETS Ref. No. - N° de réf. de SEAG PW-\$\$MD-007-22582
File No. - N° de dossier 007md.F2599-120023	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2012-03-30	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
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: Wood, Kelly	Buyer Id - Id de l'acheteur 007md
Telephone No. - N° de téléphone (819) 956-0654 ()	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	

INVITATION TO TENDER
APPEL D'OFFRES

**Tender 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.

**Soumission 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 et sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

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 and resulting contract document is divided into seven (7) parts plus annexes as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, 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 and other Annexes.

1.2 Summary

- (i) The Requirement is:
 - a) The Canadian Coast Guard has a requirement for the repair of eight (8) controllable pitch propeller blades for the CCGS Samuel Risley in accordance with the associated Technical Specifications detailed in Annex A.
 - b) to carry out unscheduled work authorized by the Contracting Authority.
- (ii) 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) and will be limited to suppliers in Eastern Canada Region, in accordance with Shipbuilding, Refit, Repair and Modernization Policy (1996-12-19).

1.3 Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual issued by Public Works and Government Services Canada.

<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>

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 (2011-05-16) 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 **two (2) working days** before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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.

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2.5 Work Period - Marine

Work must commence and be completed as follows:

Commence: TBD at Contract Award

Complete: May 15, 2012

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

PART 3 - BID - PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

3.1.1 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)

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 are encouraged to :

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

Section I: Technical Bid

The Bidder must provide all of the deliverables as referenced in Annex "G1" Deliverables and Certifications.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet in Annex F, and the detailed Pricing Data Sheet, Appendix 1 to Annex F. The total amount of Goods and Services Tax or Harmonized Sales Tax must be shown separately, if applicable.

3.1.2 **Unscheduled Work and Evaluation Price**

In any vessel refit, repair or docking contract, unscheduled work will arise after the vessel and its equipment is opened up and surveyed. The anticipated cost of the Work will be included in the evaluation of bids. The overall total cost will be calculated by including an estimated amount of additional person-hours (and/or material) multiplied by a firm hourly charge-out labour rate and is added to the firm price for the Work.

The overall total referred to as the "Evaluation Price" will be used for evaluating the bids. The estimated work will be based on historical experience and there is no minimum or maximum amount of unscheduled work nor is there a guarantee of such work.

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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

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 "G1".

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.

SACC Manual Clause A0220T (2007-05-25) Evaluation of Price

4.2 Basis of Selection

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

4.3. Deliverables after Contract Award

Refer to Annex "G2".

PART 5 - CERTIFICATIONS

5.1 General

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

5.2 Certifications Precedent to Contract Award

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

5.2.1 Federal Contractors Program - over \$25,000 and below \$200,000

Suppliers who are subject to the Federal Contractors Program (FCP) and have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive federal government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, and/or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC, having not bid on requirements of \$200,000 or more;
- (d) () has not been declared an ineligible contractor by HRSDC, and has a valid certificate number as follows: _____.

Further information on the FCP is available on the HRSDC Web site.

Refer to Annex "G1" for Deliverables/Certifications

PART 6 - OTHER REQUIREMENTS

6.1 Workers' Compensation - Letter of Good Standing

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

At the time of bid closing the Bidder must provide a certificate or letter from the applicable Workers' Compensation Board confirming the Bidder's good standing account.

Refer to Annex "G1" for Deliverables/Certifications

6.2 Valid Labour Agreement

If the Bidder has a labour agreement, or other suitable instrument, in place with its unionized labour or workforce, it must be valid for the period of any resulting contract. At the time of bid closing the Bidder must provide evidence of that agreement.

Refer to Annex "G1" for Deliverables/Certifications

6.3 Insurance Requirements

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

Refer to Annex "G1" for Deliverables/Certifications

6.4 Welding Certification

1. Welding must be performed by a welder certified by the Canadian Welding Bureau and in accordance with the requirements of the following Canadian Standards Association (CSA) standards:

- (a) CSA W47.1-03, Certification of Companies for Fusion Welding of Steel Division 2 Certification; and
- (b) CSA W47.2-M1987(R2003), Certification of Companies for Fusion Welding of Aluminum Division 2.1 Certification.

2. At the time of bid closing the Bidder must submit evidence demonstrating its certification to the welding standards.

Refer to Annex "G1" for Deliverables/Certifications

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6.5 List of Proposed Subcontractors

If the bid includes the use of subcontractors, the Bidder shall provide a list of all subcontractors including a description of the things to be purchased, a description of the work to be performed by specification section and the location of the performance of that work. The list should not include the purchase of off-the-shelf items, software and such standard articles and materials as are ordinarily produced by manufacturers in the normal course of business, or the provision of such incidental services as might ordinarily be subcontracted in performing the Work, i.e. subcontract work valued at less than \$ 5,000.00 aggregate for the project.

Refer to Annex "G1" for 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:

- a) Carry out the repair of eight (8) controllable pitch propeller blades for the CCGS Samuel Risley in accordance with the associated Technical Specifications detailed in Annex A.
- b) carry out any authorized unscheduled work not covered in the above paragraph 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 issued by Public Works and Government Services Canada and available at: <http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>

7.2.1 General Conditions

1. 2030, (2012-05-16), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.
2. 1031-2, (2008-05-12), Contract Cost Principles, apply 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 Term of Contract

7.3.1 Work Period - Marine

Work must commence and be completed as follows:

Commence: TBD at Contract Award

Complete: May 15, 2012

The Contractor certifies that they have sufficient material and human resources allocated or available and that the above work period is adequate to both complete the known work and absorb unscheduled work.

7.4 Authorities

7.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Kelly Wood
Public Works and Government Services Canada
Marine Systems Directorate
Defense and Major Projects Sector
PWGSC, 6C2 Place du Portage, Phase III
11 Laurier Street,
Gatineau, Quebec, K1A 0S5
Tel: (819) 956-0654 Fax: (819) 956-0897
E-Mail - kelly.wood@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 Technical Authority for the Contract is:

John M. Odell
Production Manager, Marine Engineering
Canadian Coast Guard
Central and Arctic Region
520 Exmouth Street
Sarnia, Ontario
N7T 8B1
Telephone (519) 383-1926
Cell (519) 330-1778
Fax (519) 383-1990
E-mail: john.odell@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 indicated in the Basis of Payment in Annex " B" for the Known Work. The Goods and Services Tax or Harmonized Sales Tax (GST/HST) is extra, if applicable. Payment for unscheduled work shall be in accordance with Annex "B".

7.5.2 Progress Payment

1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work, up to 90 percent of the amount claimed and approved by Canada if:
 - (a) an accurate and complete claim for payment using form PWGSC-TPSGC 1111 <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>, 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) the amount claimed is in accordance with the basis of payment;
 - (c) the total amount for all progress payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Contract;
 - (d) all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.
2. The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.
3. Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the rights to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

7.5.3 Sacc Manual Clause

H4500C (2010-01-11) Liens - Section 427 of the Bank Act

C6000C (2011-05-16) Limitation of Price

C0711C (2008-05-12) Time Verification

7.6 Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in Section 13 of 2030 - General Conditions and Clause 7.6.2 - Invoicing Instructions - Progress Claim.

7.6.1 Invoices

1. Invoices will be distributed as follows:

- (a) Canadian Coast Guard
Marine Engineering
520 Exmouth Street
Sarnia, Ontario
N7T 8B1

And

(b) **The original invoice to be forwarded for verification to:**

Public Works and Government Services Canada
Marine Systems Directorate
Defence and Major Projects Sector
11 Laurier Street, Place du Portage
Phase III, 6C2
Gatineau, Quebec
K1A 0S5
Attention: Kelly Wood

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.

7.6.2 Invoicing Instructions - Progress Claim

1. The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111 <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>, Claim for Progress Payment.

Each claim must show:

- (a) all information required on form PWGSC-TPSGC 1111;
- (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;

-
2. The Goods and Services Tax or Harmonized Sales Tax (GST/HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.
 3. 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 Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

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

7.6.3 Warranty Holdback

A warranty holdback of 5% of the total contract price as last amended (GST/HST excluded) will be applied to the final claim for payment. This holdback will be payable by Canada upon the expiry of the 90 day warranty period(s) applicable to the Work. Goods and Services tax or Harmonized Sales tax (GST/HST), as appropriate, is to be calculated and paid on the total amount of the claim before the 5% holdback is applied. At the time that the holdback is released, there will be no GST/HST payable, as it was included in previous payments.

7.7 Certifications

7.7.1 SACC Manual Clauses

A3015C - Certifications - 2008-12-12

7.8 Applicable Laws

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

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, (2012-03-02), General Conditions - Higher Complexity - Goods, as amended;
- (d) the General Conditions 1031-2, (2008-05-01), Contract Cost Principles;
- (e) Annex A, Statement of Work;
- (f) Annex B, Basis of Payment;
- (g) Annex C, Insurance Requirements;
- (h) Annex D, Warranty;
- (i) Annex E, Procedure for Unscheduled Work;
- (j) the Contractor's bid dated _____, as amended _____

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

7.11 Sub-contracts and Sub-contractor List

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

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

7.12 Trade Qualifications

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

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7.13 Procedure for processing **Unscheduled Work**

As per Annex "E"

7.14 **Workers Compensation**

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

7.15 **Welding Certification**

1. The Contractor must ensure that welding is performed by a welder certified by the Canadian Welding Bureau (CWB) in accordance with the requirements of the following Canadian Standards Association (CSA) standards:
 - (a) CSA W47.1-03, Certification for Companies for Fusion Welding of Steel Division 2 Certification; and
 - (b) CSA W47.2-M1987 (R2003), Certification for Companies for Fusion Welding of Aluminum Division 2.1 Certification.
2. In addition, welding must be done in accordance with the requirements of the applicable drawings and specifications.
3. Before the commencement of any fabrication work, and upon request from the Technical Authority, the Contractor must provide approved welding procedures and/or a list of welding personnel he intends to use in the performance of the Work. The list must identify the CWB welding procedure qualifications attained by each of the personnel listed and must be accompanied by a copy of each person's current CWB welding certification.

7.16 **Contractor Contacts**

Name and Telephone numbers of person responsible for:

General Enquiries:

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

Delivery Follow-up:

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

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ANNEX A

REQUIREMENT

**CCGS SAMUEL RISLEY - CP Propeller Blade Repair
Specification No. 731.11 Dated 2012-02-13**

ANNEX B

BASIS OF PAYMENT - FIRM PRICE

Annex B will form the Basis of Payment for the resulting Contract and should not be filled in at the bid submission stage.

B1 Contract Firm Price

A)	Known Work For work as stated in Article 7. 1, Specified in Annex "A" and priced in the attached Pricing Data Sheets, for a FIRM PRICE of:	\$
B)	HST/GST of line a) only	\$
C)	Total Firm Price /GST/HST Included :	\$

B2 Unscheduled Work

The Contractor will be paid for unscheduled work arising, as authorized by Canada. The authorized unscheduled work will be calculated as follows:

"Number of hours (to be negotiated) X \$_____, being the Contractor's firm hourly *charge-out labour rate* which includes *overhead* and profit, plus net laid-down cost of materials to which will be added a mark-up of 10 percent, plus Goods and Services Tax or Harmonized Sales Tax (GST/HST), if applicable, of the total cost of material and labour. The firm hourly *charge-out labour rate* and the material mark-up will remain firm for the duration of the Contract and any subsequent amendments."

B2.1: Notwithstanding definitions or usage elsewhere in this document, or in the Contractor's Cost Management System, when negotiating *Hours* for unscheduled work, PWGSC will consider only those hours of labour directly involved in the production of the subject work package.

Elements of *Related Labour Costs* identified in B2.2 below, will not be negotiated, but will be compensated for in accordance with Note B2.2.

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

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

ANNEX C

INSURANCE REQUIREMENTS

C.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 \$10,000,000.00 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability Insurance policy must include the following:
 - (a) Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
 - (b) Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - (c) Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
 - (d) 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.
 - (e) 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.
 - (f) 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.
 - (g) Employees and, if applicable, Volunteers must be included as Additional Insured.
 - (h) Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
 - (i) Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
 - (j) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - (k) 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.
 - (l) Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.

(o) All Risks Tenants Legal Liability - to protect the Contractor for liabilities arising out of its occupancy of leased premises.

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

C.2 All Risk in Transit Insurance

1. The Contractor must obtain on the Government's Property, and maintain in force throughout the duration of the Contract, All Risk Property in Transit insurance coverage for all applicable conveyances while under its care, custody or control, in an amount of not less than \$800,000.00 per shipment. Government Property must be insured on Replacement Cost (new).

2. Administration of Claims: The Contractor must notify Canada promptly about any losses or damages to Government Property and monitor, investigate and document losses of or damage to ensure that claims are properly made and paid.

3. The All Risk Property in Transit insurance must include the following:

(a) Notice of Cancellation: The Insurer will endeavour to provide the Contracting authority at least thirty (30) days written notice of any policy cancellation.

(b) Loss Payee: Canada as its interest appears or as it may direct.

(c) Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Canadian Coast Guard and Public Works and Government Services Canada for any and all loss of or damage to the property however caused.

C.3 Bailee's Customer Goods Insurance

The Contractor must obtain Bailee's Customer's Goods insurance while Government Property is under its care, custody or control for repair or servicing, and maintain it in force throughout the duration of the Contract, in an amount of not less than \$800,000.00. Government Property must be insured on Replacement Cost (new).

1. Administration of Claims: The Contractor must notify Canada promptly about any losses or damages to Government Property and monitor, investigate and document losses of or damage to ensure that claims are properly made and paid.

2. The Bailee's Customer's Goods must include the following:

(a) Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

(b) Settlement of Claims: The insurance proceeds regarding any loss of or damage to Government Property must be payable to the appropriate party as directed by the Contracting Authority.

(c) Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Canadian Coast Guard and Public Works and Government Services Canada for any and all loss of or damage to the property however caused.

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ANNEX D

WARRANTY

2030 (2012-03-02) General Conditions - Higher Complexity - Goods are hereby amended as follows:

Section 22 Warranty

1. At the discretion of the Minister, the Contractor will replace or make good at its own expense any finished work, excluding Government Issue incorporated therein, which becomes defective or which fails to conform to contract requirements as a result of faulty or inefficient manufacture, material or workmanship.

2. Notwithstanding prior acceptance of the finished work, and without restricting any other term of the Contract or any condition, warranty or provision implied or imposed by law, the Contractor hereby warrants that the following shall be free from all defects and shall conform with the requirements of the contract:

(a) All Work for a period of ninety (90) days commencing from the date of acceptance of the Work at Delivery, except that for all outstanding defects, deviations, and Work items listed on the Acceptance Document at Delivery, the Warranty will be ninety (90) days from the subsequent date of acceptance for each item.

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

Warranty Procedures

1. Scope

a. The following are the procedures which suit the particular requirements for warranty considerations for completion of repair.

2. Definition

a. There are a number of definitions of "warranty" most of which are intended to describe its force and effect in law. One such definition is offered as follows:

"A warranty is an agreement whereby the vendor's or manufacturer's responsibility for performance of its product is extended for a specific period of time beyond the date at which the title to the product passes to the buyer."

3. Warranty Conditions

a. General Conditions 2030, General Conditions - Higher Complexity - Goods are augmented by clauses incorporated into the subject Contract.

b. The warranty periods may be stated in more than one part:

i. 90 days commencing from the day the PWGSC Acceptance Document is signed for workmanship provided by the contractor for the work specified;

iii. 90 days commencing from the day the PWGSC Acceptance Document is signed for parts and material provided by the contractor for the work specified;

iv. Any other specific warranty periods that may be required in the contract or offered by the Contractor.

c. The foregoing does not cover the disposition of other deficiencies that will be directly related to Technical Authority problem areas of the following nature:

- i. items becoming unserviceable that were not included in the specification;
- ii. specifications or other related documentation requiring amendments or corrections to increase viability; and
- iii. work performed that is directly related to the Technical Authority.

4. Reporting Failures With Warranty Potential

a. The initial purpose of a report of a failure is to facilitate the decision as to whether or not to involve warranty and to generate action to effect repairs. Therefore in addition to identification, location data, etc. the report must contain details of the defect. Warranty decisions as a general rule are to be made locally and the administrative process is to be in accordance with procedures as indicated.

b. These procedures are necessary as invoking a warranty does not simply mean that the warrantor will automatically proceed with repairs at his expense. A review of the defect may well result in a disclaimer of responsibility, therefore, it is imperative that during such a review the Department is directly represented by competent technical authority qualified to agree or disagree with the warrantor's assertions.

5. Procedures

a. Immediately it becomes known to the Ship's Staff that an equipment/system is performing below accepted standards or has become defective, the procedures for the investigation and reporting are as follows:

- i. The vessel advises the Technical Authority when a defect, which is considered to be directly associated the work, has occurred.
- ii. On review of the Specification and the Acceptance Document, the Technical Authority in consort with Ship's Staff is to complete the Tombstone Data and section 1 of the Warranty Claim Form Appendix 1 of Annex D and forward the original to the Contractor for review with a copy to the PWGSC Contracting Authority. If the PWGSC Contracting or Technical Authority is unable to support warranty action, the Defect Claim Form will be returned to the originator with a brief justification. (It is to be noted that in the latter instance PWGSC will inform the Contractor of its decision and no further action will be required of the Contractor.

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

iii.. Assuming the Contractor accepts full responsibility for repair, the Contractor completes Section 2 and 3 of the Warranty Claim Form, returns it to the Technical Authority who confirms corrective action has been completed, and who then distributes the form to the Technical Authority and the PWGSC Contracting Authority.

b. In the event that the Contractor disputes the claim as a warranty defect, or agrees to share, the contractor is to complete Part 2 and 3 of the Warranty Claim Form with the appropriate information and forward it to the Contracting Authority who will distribute copies as necessary.

c. When a warranty defect claim is disputed by the Contractor, the Technical Authority may arrange to correct the defect by in-house resources or by contracting the work out. All associated costs must be tracked and recorded as a possible charge against the contractor by PWGSC action. Material costs and manhours expended in correcting the defect are to be recorded and entered in Section 5 of the warranty defect claim by the Technical Authority who will forward the warranty defect claim to the PWGSC

Contracting Authority for action. Defective parts of equipment are to be retained pending settlement of claim.

d. Defective equipment associated with potential warranty should not normally be dismantled until the contractor's representative has had the opportunity to observe the defect. The necessary work is to be undertaken through normal repair methods and costs must be segregated as a possible charge against a contractor by PWGSC action.

6. Liability

a. Agreement between the Contracting Authority, Technical Authority and the Contractor will result in one of the following conditions:

i. The contractor accepts full responsibility for costs to repair or overhaul under the warranty provisions of the contract;

ii. The Technical Authority accepts full responsibility for repair and overhaul of item concerned; or

iii. The Contractor and the Technical Authority agree to share responsibility for the costs to repair or overhaul the unserviceable item, in such cases the PWGSC Contracting Authority will negotiate the best possible sharing arrangement.

b. In the event of a disagreement as in paragraph 5c, PWGSC will take necessary action with the contractor while the Technical Authority informs its Senior Management including pertinent data and recommendations.

c. The total cost of processing warranty claims must include accommodation and travel costs of the contractor's employees as well as equipment/system down time and operational constraints. Accordingly, the cost to remediate the defect, in manhours and material, will be discussed between the Contracting and the Technical Authority to determine the best course of action.

7. Alongside Period For Warranty Repairs and Checks

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

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APPENDIX 1 TO ANNEX D WARRANTY CLAIM FORM



Public Works and Government
Services Canada

Travaux publics et Services
gouvernementaux Canada

Warranty Claim Réclamation De Garantie

Vessel Name – Nom de navire	File No. – N° de dossier	Contract No. - N ° de contrat								
Customer Department – Ministère client		Warranty Claim Serial No. Numéro de série de réclamation de garantie								
Contractor – Entrepreneur		Effect on Vessel Operations Effet sur des opérations de navire <table border="0"> <tr> <td>Critical Critique opérationnel</td> <td>Degraded Dégradé</td> <td>Operational Opérationnel</td> <td>Non-operational Non-</td> </tr> <tr> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Critical Critique opérationnel	Degraded Dégradé	Operational Opérationnel	Non-operational Non-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Critical Critique opérationnel	Degraded Dégradé	Operational Opérationnel	Non-operational Non-							
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							

1. Description of Complaint – Description de plainte

Contact Information – l'information de contact	Signature – Signature	Date
Name – Nom Tel. No. - N ° Tél		

2. Contractor's Investigative Report – Le rapport investigateur de l'entrepreneur

3. Contractor's Corrective Action – La modalité de reprise de l'entrepreneur

Contractor's Name and Signature – Nom et signature de l'entrepreneur Date of Corrective Action - Date de modalité de reprise

Client Name and Signature - Nom et signature de client Date

4 Review of Warranty Claim Action – Examen d'action de réclamation de garantie par TPSGC

Signature – Signature Date

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ANNEX E

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 Proposal.
- 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).
- 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, estimates of any related 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

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bearing a notation that this form is replacing and cancelling the form having the same Serial Number with the suffix "A".

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.

ANNEX F**Financial Bid Presentation Sheet****F1 Price for Evaluation**

A)	Known Work For work as stated in Part 1 Clause 1.2, Specified in Annex "A" and priced in the attached Pricing Data Sheets Appendix 1 of Annex "F", for a FIRM PRICE of:	\$-----
B)	Unscheduled Work Contractor <i>Labour Cost</i> : Estimated labour hours at a firm <i>Charge-out Labour Rate</i> , including overhead and profit for evaluation purpose only: 50 person hours X \$_____ per hour for a PRICE of: See Note F2.1 and F2.2 below.	\$-----
C)	Evaluation Price GST/HST Excluded, (A+B): For an Evaluation Price of:	\$-----

F2 Unscheduled Work

The Contractor will be paid for unscheduled work arising, as authorized by Canada. The authorized unscheduled work will be calculated as follows:

"Number of hours (to be negotiated) X \$_____, being the Contractor's firm hourly *charge-out labour rate* which includes *overhead* and profit, plus net laid-down cost of materials to which will be added a mark-up of 10 percent, plus Goods and Services Tax or Harmonized Sales Tax (GST/HST), if applicable, of the total cost of material and labour. The firm hourly *charge-out labour rate* and the material mark-up will remain firm for the duration of the Contract and any subsequent amendments."

F2.1: Notwithstanding definitions or useage elsewhere in this document, or in the Bidder's Cost Management System, when negotiating *Hours* for unscheduled work, PWGSC will consider only those hours of labour directly involved in the production of the subject work package.

Elements of *Related Labour Costs* identified in F2.2 below, will not be negotiated, but will be compensated for in accordance with Note F2.2.

F2.2: Allowance for *Related Labour Costs* such as: Management, Direct Supervision, Purchasing and Material Handling, Quality Assurance and Reporting, First Aid, Gas Free Inspecting and Reporting, and Estimating will be included as *Overhead* for the purposes of determining the *Charge-out Labour Rate* entered in line F2 above.

F2.3: The 10% mark-up rate for materials will also apply to subcontracted costs. The mark-up rate includes any allowance for material and subcontract management not allowed for in the Chargeout Labour Rate. The Contractor will not be entitled to a separate labour component for the purchase and handling of materials or subcontract administration.

Appendix 1 of Annex F

PRICING DATA SHEETS

Spec. #	Spec. Name.	Labour Hours	Labour Cost	Material Cost	FSR/ Sub-Contractors Cost	Total Firm Price
1.3.1	Propeller Blade Repairs - Repair all eight CP Propeller Blades in accordance with Transport Canada Marine Safety (TCMS) and Lloyd's Register of Shipping Requirement.		\$	\$	\$	\$
1.3.2	Propeller Blade Transportation - The Contractor shall ship the blades from the Coast Guard Base, Parry Sound, Ontario to the repair facility and shall deliver the blades to the Coast Guard Base, Parry Sound, Ontario upon completion of work		\$	\$	\$	\$
1.5.1	Documentation (Reports/Drawings/ Procedures) The Contractor shall supply a quality assurance report for each propeller blade. Contractor shall provide copies of all tests performed on the material		\$	\$	\$	\$
	Total		\$	\$	\$	\$

ANNEX G**DELIVERABLES/CERTIFICATIONS****G1 Mandatory Requirements with Bid**

Notwithstanding deliverable requirements specified anywhere else within bid solicitation and its associated Technical Specification, the following are the only mandatory deliverables that must be submitted with the Bidder's tender at the time of bid closing. The following are mandatory and the Bidder must be compliant on each item to be considered responsive:

Item	Description	Completed and Attached
1	The entire Invitation To Tender document completed and signed including Delivery Date	
2	Completed Annex "F" Financial Bid Presentation Sheet and the detailed Pricing Data Sheet, Appendix 1 to Annex "F"	
3	Certifications provided for in Part 5 "Certifications" signed by a duly authorized officer or officers of the Bidder as per 5.2.1	
4	Proof of Good Standing with Worker's Compensation Board as per Part 6 - Article 6.1	
5	Proof of Valid Labor Agreement or similar instrument covering the contract period as per Part 6 - Article 6.2	
6	Insurance Requirements Letter, as per Part 6 - Article 6.3	
7	Evidence demonstrating its certification to the welding standards, as per Part 6 - Article 6.4	
8	List of proposed Sub-Contractors (if any) as per Part 6 - Article 6.5	

G2 Deliverables after Contract Award

Item	Description	To be forwarded after Contract Award within
1	Insurance Requirement, as per Part 7 - Article 7.10	10 calendar days

CCGS SAMUEL RISLEY CP PROPELLER BLADE REPAIR

Specification No: 731.11

Date: 2012-02-13

Prepared by Marine Engineering
520 EXMOUTH ST.
SARNIA, ON N7T 8B1

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1.0 CCGS SAMUEL RISLEY CP PROPELLER BLADE REPAIR

1.1 Identification

1.1.1 The Contractor shall repair eight controllable pitch propeller blades for the CCGS Samuel Risley. The two sets of blades are for one RIGHT Hand and for one LEFT hand turning CP propeller. The Contractor shall ship the blades from the Coast Guard Base, Parry Sound, ON to the repair facility and shall deliver the blades to the Coast Guard Base, Parry Sound, ON upon completion of the work.

1.2 References

1.2.1 Equipment Data

Diameter: 3000 mm
 Hub Diameter: 1100 mm
 Hub Type: 4C11SW
 Pitch: 3837 mm
 Number of Blades: 4
 Number of Propellers: 2 – One (1) Right Hand, One (1) Left Hand
 Direction of Rotation: Outboard Turning
 Expanded Blade Area Ratio: 0.636
 Material: CUNIAL
 Minimum Tensile Strength: 647 N/mm²
 Minimum Elongation: 20%
 Mass of One (1) Blade: 601 Kg
 Mass Moment of Inertia of Prop in Air: 2356 KGM²
 Engine Output: 3180 KW
 Propeller Revolutions: 200 RPM
 Construction Standards: Lloyd’s 1A Super; ASPPR Arctic Class 2
 Blade Finished Tolerances in Accordance with ISO Class I

LIPS Installation Numbers HO 2203 – Starboard
 HO 2204 - Port

Blade Serial Numbers: 8439-91, 8440-91, 9347-94, 9348-94 (Starboard)
 9343-94, 9344-94, 9345-94, 9346-94 (Port)

1.2.2 Drawings

Drawing Number	Description	Electronic Number
W0003101363-A1	Propeller Blade	
Drawing W0003101363-A1 is provided for guidance purposes for the repair of these propeller blades only. These drawings shall not be used for any purpose outside the scope of this		

contract.

1.2.3 Regulations

- 1.2.3.1 Transport Canada, ARCTIC SHIPPING POLLUTION PREVENTION REGULATIONS.

1.2.4 Standards

- 1.2.4.1 ISO Standard 484/1-1981 Part 1 – Propellers of Diameter Greater than 2.5m.
- 1.2.4.2 Lloyd’s Register of Shipping RULES AND REGULATIONS FOR THE CLASSIFICATION OF STEEL SHIPS.
- 1.2.4.3 ASTM E 165-80 STANDARD FOR DYE PENETRANT.

1.3 Technical

1.3.1 Propeller Blade Repairs

- 1.3.1.1 The Contractor shall repair all eight CP propeller blades in accordance with Transport Canada Marine Safety (TCMS) and Lloyd’s Register of Shipping requirements in effect for this type of propeller blade repair. Where these requirements are in conflict, the stricter shall be followed. The Contractor shall use for repair work weld filler material and alloy whose chemical composition is compatible with the blade materials as per the manufacturers’ specifications and guidelines.
- 1.3.1.2 The blade surfaces and edges are damaged by erosion/cavitation, and by contact with ice. The blades are to be repaired by straightening, welding, or casting new material as required.
- 1.3.1.3 All blade surfaces shall be ground smooth to the design contour. All surfaces shall be smooth and fair without measurable humps and/or hollows. All blade tolerances shall be in accordance with Accuracy Class 1 - ISO 484/1 – Part I – Propellers of Diameter Greater Than 2.5meters.
- 1.3.1.4 The blade flanges are typically eroded in way of the sealing o-rings and may also be dished concave by blade forces. The Contractor shall inspect and measure the blade flanges to determine if they require to be machined true. The Contractor shall include in the fixed price bid the cost for machining eight blade flanges. The fixed price shall be adjusted should the blade flanges not require to be machined.
- 1.3.1.5 Where blade flange faces are machined, the Contractor must ensure that the dowel dimensions and profiles are correct after machining. Where the flange thickness has been reduced the dowel shall be machined by the same amount to maintain clearances when the blade is fitted to the hub.
- 1.3.1.6 When casting new material at the blade tips the Contractor shall ascertain that the repaired propeller blades meet the overall required propeller diameter as set out on

Drawing Number W003101363-A1. Some of the blades have been machined on the blade flange face, leading to an overall reduction in propeller diameter.

- 1.3.1.7 The Contractor shall ascertain that the propeller blades are finished with the proper blade tip clearances and the anti-singing edge as detailed on Drawing Number W003101363-A1.
- 1.3.1.8 For the repair of the propeller blades, the Contractor may require the chemical composition or proprietary name of the propeller alloy. Where additional alloy is required for the repair, the Contractor shall verify with TCMS as to their inspection requirements for this additional alloy. Where required, the Contractor shall cast sufficient number of test pieces that shall be cast and identified from the same ladle as the propeller blade repair material. The material tests to be performed on the test pieces shall be to the satisfaction of the attending TCMS surveyor. All costs for these tests, if required by TCMS, shall be treated as work arising. All repairs made by welding or casting new alloy are to use parent material only, and to be stress relieved in accordance with the manufacturer's specifications.
- 1.3.1.9 Each propeller blade shall be weighed for balance. Corrections shall be made to ensure that the results of the propeller data – Section 1.2.1 – for mass moment of inertia shall be achieved.

1.3.2 Propeller Blade Transportation

- 1.3.2.1 The Contractor shall ship the blades from the Coast Guard Base, Parry Sound, ON to the repair facility and shall deliver the blades to the Coast Guard Base, Parry Sound, ON upon completion of the work.
- 1.3.2.2 The Contractor is responsible for the cost of any repair required due to damage in transit to and from the Contractor's facility.
- 1.3.2.3 The propeller blades shall be shipped two (2) per pallet on wooden pallets designed to meet the weight requirement of the blades. The face of the blade flange shall be protected with an additional piece of hard wood inserted between the blade flange face and the pallet. The hard wood piece shall be the same dimension in diameter as the blade flange face. The blades shall be secured to the pallet with a minimum of four (4) bolts, nuts and washers securing each blade to the pallet through diametrically opposing blade flange bolt holes, through the piece of hard wood and through the pallet material. Bolts shall be so aligned that they do not interfere and cannot be damaged when the pallet is handled via a forklift. Each blade shall also be secured to the pallet with a minimum of 2 steel bands passing over the outer diameter of each blade. All open blade flange bolt holes shall be protected from ingress of dirt and/or damage with fitted wooden plugs.
- 1.3.2.4 The cost of transportation to and from the Contractor's repair facility shall be included in the price of the Contract.

1.4 Proof of Performance

1.4.1 Pre and Post Repair Inspections and Tests

- 1.4.1.1 All propeller blades shall be visually inspected for condition prior to any repairs. The condition shall be recorded for each blade and copies of the inspection report shall be included in the final quality assurance report. Dowel dimensions prior to repair are to be recorded and included in the final quality assurance report.
- 1.4.1.2 Each blade root shall be inspected using dye-penetrant to ASTM Standard E-165-80 Before commencing any repair work. If dye-penetrant results are inconclusive ultrasonic or radiographic examination of the blade roots may be required and treated as work arising. Results shall be recorded in the final quality assurance report.
- 1.4.1.3 For the application of fusion welding of non-ferrous structures, the Contractor and his Sub-contractors shall use the Lloyd's Classification Society rules as applicable to the propeller classification of 1A Super.

1.4.2 Certification

- 1.4.2.1 The Contractor shall obtain and supply TCMS Component Inspection Certificate(s) and shall ensure that the blades are stamped and identified by the attending TCMS inspector.

1.5 Deliverables

1.5.1 Documentation (Reports/Drawings/Procedures)

- 1.5.1.1 The Contractor shall supply a quality assurance report for each propeller blade. This Report shall detail the pre-repair conditions, including dowel height and blade flange face thickness. It shall include a summary of repair methods used and repairs made. Welding and alloy material specifications shall be included in this summary. The report shall contain the "as finished" values for the final pitch of each blade at the radius intervals indicated on Drawing Number W003101363-A1, the mean pitch for each blade and the weight for each blade, results of blade balancing, final thickness of blade flange, and results from the root dye penetrant tests.
- 1.5.1.2 Where required by TCMS to provide test proof samples for additional blade material used for the repair of the blades, the Contractor shall provide copies of all tests performed on the material.
- 1.5.1.3 All documentation shall be provided with 4 paper copies on 8 ½ inch by 11 inch paper and one copy of all documentation shall be provided in an Adobe Acrobat PDF file format on CD-ROM media. All documentation shall be delivered to the Technical Authority.