

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Réception des soumissions - TPSGC / Bid
Receiving - PWGSC
1550, Avenue d'Estimauville
1550, D'Estimauville Avenue
Québec
Québec
G1J 0C7

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 Martha Black - Crane Controls | |
| Solicitation No. - N° de l'invitation F3012-14N564/A | Date 2015-03-25 |
| Client Reference No. - N° de référence du client F3012-14-N564 | |
| GETS Reference No. - N° de référence de SEAG PW-\$QCL-037-16386 | |
| File No. - N° de dossier QCL-4-37130 (037) | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-04-20 | Time Zone Fuseau horaire Heure Avancée de l'Est HAE |
| F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/> | |
| Address Enquiries to: - Adresser toutes questions à: Woods, Michael | Buyer Id - Id de l'acheteur qcl037 |
| Telephone No. - N° de téléphone (418) 649-2715 () | FAX No. - N° de FAX (418) 648-2209 |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: PÊCHES ET OCÉANS CANADA - GCC NGCC MARTHA L.BLACK 101 BOUL.CHAMPLAIN QUEBEC Québec G1K7Y7 Canada | |

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Issuing Office - Bureau de distribution

TPSGC/PWGSC
601-1550, Avenue d'Estimauville
Québec
Québec
G1J 0C7

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

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation and resulting contract document is divided into seven 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** Security, 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 Requirement, the Basis of Payment, Insurance Requirements, Mandatory Technical Requirements and other technical documents.

1.2 Summary

The Canadian Coast Guard (CCG) has a requirement for a contractor to carry out work onboard CCGS Martha Black in accordance with CCG Technical specifications titled 'Requirement CCGS Martha Black Speed Crane Drive Replacement'.

Contractor shall replace the obsolete Cortina Speed Crane main hoist (20 Tons) and auxiliary hoists (8 and 5 tons) drive system with a modern system which shall be more readily supportable in availability of parts and technical guidance.

The Contractors proposal shall be an integrated package seamlessly interfacing with existing supply, motor, feedback, interlocks, metering and remote control station providing functionality equal to the current system at a minimum as noted in reference literature. The proposal shall include, but is not limited to the installation, parts, drawings, training, testing and commissioning.

1.3 Debriefings

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

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 (2014-09-25) 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.

2.2.1 Improvement of Requirement During Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least **14 days before the bid closing date**. Canada will have the right to accept or reject any or all suggestions.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **seven (7)** calendar days before the bid closing date. Enquiries received after that time may not be answered.

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

2.4 Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (1 hard copy)
Section II: Financial Bid (1 hard copy)
Section III: Certifications (1 hard copy)

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

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

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

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

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

Section I: Technical Bid

In their technical bid, bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work described at annex A.

a) Mandatory Technical Requirements:

The bidders **shall** include a duly completed **annex D** with the bid. The bidders shall indicate whether or not the product offered complies with each of the technical specifications by indicating the proposal details in the suitable boxes and referencing the location of the details in the technical documents provided.

b) Documentation:

Bidders **shall** include the proposed system's technical specs describing the proposed product at annex B with the bid.

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Section II: Financial Bid

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

3.1.1 Exchange Rate Fluctuation

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

Section III: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

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

4.1.1 Technical Evaluation

Proposals will be evaluated for compliance with the mandatory requirements of the solicitation and the specifications of annex A.

- a) It is **mandatory** that bidders provide sufficient documentation with their bid to allow the evaluation team to confirm their compliance with all mandatory requirements at Annex D. Bidders must submit an answer for each criteria.
- b) Verification with the user of the projects in reference at Annex D to attest the accuracy of the information could be made. If the user is not available or refute the information provided by the bidder, the bid will be declared non-responsive.

Compliance with all sections of the specifications is mandatory as stated in annex D.

4.1.2 Financial Evaluation

Evaluation of price

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

4.2 Basis of Selection

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

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications and associated information 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 in carrying out any of its obligations under the Contract, if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

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

5.1 Certifications Precedent to Contract Award

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

5.1.1 Integrity Provisions - Associated Information

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions [2003](#). The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

5.1.2 Additional Certifications Precedent to Contract Award

5.1.2.1 Education and Experience

SACC Manual Clause A3010T (2010-08-16), Education and Experience

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PART 6 - RESULTING CONTRACT CLAUSES

6.1 Insurances Requirements

At bids closing date 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".

PART 7 - RESULTING CONTRACT CLAUSES

7.1 Security Requirements

There is no security requirement applicable to this Contract.

7.2 Requirement

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

7.3 Standard Clauses and Conditions

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

7.3.1 General Conditions

2030 (2014-09-25) General Conditions - Higher Complexity – Goods, apply to and form part of the Contract.

7.4 Term of Contract

The period of the Contract is from date of Contract up to **three (3) months** after work acceptance.

7.4.1 Work Period

Installation work is to commence and to be completed during the Work Period as follows:

Start of work: June 22nd, 2015
End of work: July 27th, 2015

The Contractor agrees that the above time frame provides an adequate period to perform the subject work and absorb a reasonable amount of unscheduled work; and further, that it has sufficient material and human resources allocated or available to complete the subject work and a reasonable amount of unscheduled work within the Work Period.

7.5 Authorities

7.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Michael Woods
Title: Supply Specialiste (Marine)
Public Works and Government Services Canada
Acquisitions Branch
Directorate: Supply
Address: 1550, avenue D'Estimauville, Québec, (Québec) G1J 0C4, Quebec, Canada

Telephone: 418-649-2715
Facsimile: (418) 648-2209
E-mail address: michael.woods@tpsgc-pwgsc.gc.ca

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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.

7.5.2 Technical Authority

The Technical Authority for the Contract is:

Name will be determined at Contract award

Telephone: _____
Facsimile: _____
E-mail address: _____

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.

7.5.3 Contractor's Representative

The Contractor's representative will be:

Name: _____
Title: _____
Telephone : _____
Facsimile: _____
E-mail address: _____

7.6 Payment

7.6.1 Basis of Payment

SACC *Manual* clause H1000C (2008-05-12), Single Payment

7.7 Invoicing Instructions

7.1 The Contractor must submit invoices in accordance with the information required in Section 13 of 2030, (2014-09-25), General Conditions - Higher Complexity - Goods

7.7.2 Invoice to be made to the name of:

DFOinvoicing-MPOfacturation@dfo-mpo.gc.ca

Write the name of the contact person;

Michelle Turcotte – Tel. 418 648-5930
Mailing Address (if required)
Pêches et Océans Canada
PO Box 1901, STN A
Fredericton (New-Brunswick)
E3B 5G4

Electronic Copy to be sent for verification to:

michael.woods@tpsgc-pwgsc.gc.ca

7.7.3 Basis of Payment - Firm Unit Prices

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm unit prices, as specified in Annex B for a cost of \$ _____ (**the amount will be insert at contract award**). Customs duties are included and all applicable taxes are extra, if applicable.

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.

7.7.4 Limitation of price

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

7.8 Certifications

7.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the associated information, 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.

7.9 Applicable Laws

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

7.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2030 (2014-09-25), General Conditions-Higher Complexity - Goods;
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Insurance;
- (f) Annex D, Mandatory Technical Requirements; and
- (g) the Contractor's bid dated _____ .

7.11 Defence Contract

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

7.12 SACC Manual Clauses

SACC Manual Clause B5007C (2010-01-11) Design Change or Additional Work

7.13 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 million per incident or occurrence to an annual aggregate of \$20 million for losses or damage caused in any one year of carrying out the Contract, each year starting on the date of coming into force of the Contract or its anniversary. This limitation of the Contractor's liability does not apply to nor include:

(a) Any infringement of intellectual property rights;

(b) Any breach of warranty obligations;

(c) Any liability of Canada to a third party arising from any act or omission of the Contractor in performing the Contract; or

(d) Any loss for which the policies of insurance specified in the Contract or any other policies of insurance held by the Contractor would provide insurance coverage.

3. Each Party agrees that it is fully liable for any damages that it causes to any third party in connection with the Contract, regardless of whether the third party makes its claim against Canada or the Contractor. If Canada is required, as a result of joint and several liability, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada for that amount.

4. The Parties agree that nothing herein is intended to limit any insurable interest of the Contractor nor to limit the amounts otherwise recoverable under any insurance policy. The Parties agree that to the extent that the insurance coverage required to be maintained by the Contractor under this Contract or any additional insurance coverage maintained by the Contractor, whichever is greater, is more than the limitations of liability described in sub article (2), the limitations provided herein are increased accordingly and the Contractor shall be liable for the higher amount to the full extent of the insurance proceeds recovered.

5. If, at any time, the total cumulative liability of the Contractor for losses or damage suffered by Canada caused by the Contractor's performance of or failure to perform the Contract, excluding liability described under subsection 2(a), (b), (c) and (d) exceeds \$40 million, either Party may terminate the Contract by giving notice in writing to the other Party and neither Party will make any claim against the other for damages, costs, expected profits or any other such loss arising out of the termination. However, no such termination or expiry of the Contract shall reduce or terminate any of the liabilities that have accrued to the effective date of the termination but which liabilities are subject to the limitations as specified in sub-article (1) through (4) above.

6. The date of termination pursuant to this Article, shall be the date specified by Canada in its notice to terminate, or, if the Contractor exercises the right to terminate, in a notice to the Contractor from Canada in response to the Contractor's notice to terminate. The date of termination shall be in Canada's discretion to a maximum of 12 months after service of the original notice to terminate served by either Party pursuant to sub-article 5, above.

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7. In the event of a termination under this Article, the Contract will automatically remain in force subject to all of the same terms and conditions until the date of termination and the Contractor agrees that it will be paid in accordance with the applicable provisions as set out in the Basis of Payment, Annex B and that the Contractor's liability remains as specified in subarticles (1) through (4), above.

8. Nothing shall limit Canada's other remedies, including Canada's right to terminate the Contract for default for breach by the Contractor of any of its obligations under this Contract, notwithstanding that the Contractor may have reached any limitation of its liability hereunder.

ANNEX "A"

Requirement

CCGS Martha Black

Speed Crane Drive Replacement

1. Scope

1.1 Contractor shall replace the obsolete Cortina Speed Crane main hoist (20 Tons) and auxiliary hoists (8 and 5 tons) drive system with a modern system which shall be more readily supportable in availability of parts and technical guidance.

1.2 The Contractors shall supply an integrated package seamlessly interfacing with existing supply, motor, feedback, interlocks, metering and remote control station providing functionality equal to the current system at a minimum as noted in reference literature. The proposal shall include, but is not limited to the installation, parts, drawings, training, testing and commissioning.

1.3 References

Literature (PDF)

Speed Crane Manual Cortina

Speed Crane Manual Description

Speed Crane Manual Electrical plans

Speed Crane Manual Specifications 1

Speed Crane Manual Specifications 2

1.4 Drawings (PDF)

Speed Crane 06190-01a08, which includes the following;

- Drawing # 06190-01 – Diagram of Controls for 275A & 80A Hoist Drive
- Drawing # 06190-02 – Diagram of Power circuits for 275A & 80A Hoist Drive
- Drawing # 06190-03 – Cortina Four Quad Switcher (Card 1701/A3)
- Drawing # 06190-05 - Four Quad Regulator 669/A1
- Drawing # 06190-06 – Four Quad Regulator
- Drawing # 06190-07 – Electronic Controls for 6 Pulse Drive System
- Drawing # 06190-08 – Pedestal Type Control Console Wiring diagram

2. Requirement

2.0 Installation and Parts

2.1 Contractor shall perform 'Pre-modification' trials to establish the baseline performance. The Chief Engineer shall be notified prior to these tests being conducted and 3 copies of the results shall be provided to the Chief Engineer within 24 hours.

2.2 Contractor shall be responsible for removing existing speed crane drives and obsolete associated equipment. Contractor shall install replacement units onboard the vessel. Contractor shall be responsible for physically transporting all materials to and from the vessel. Contractor shall be responsible for disposing of removed drives and associated equipment.

- 2.3 Contractor shall remove obsolete circuit boards taking care not to damage them and give these cards to the Chief Engineer.
- 2.4 Contractor shall replace existing Speed Crane DC drives onboard the CCGS Martha Black. The Speed Crane DC drives include DC drives for Main Hoist, Auxiliary Hoist and Whip Hoist along with the replacement of High Speed and Low Speed Contactors. The contactors shall be replaced with suitable, reliable and supported High Speed and Low Speed Reversing Contactors. Also, the existing arrangement of contactors, relays and timing relays for DC Drive controls inside cabinets, not incorporated into new Drive control to be upgraded.
- 2.5 Pulse encoder interface to be used for feedback on the DC drives replacing the tachogenerators currently installed for feedback. Contractor shall supply and install programmable logic controllers (PLC) to handle all logic controls of crane operation.
- 2.6 Contractor shall replace the Operator's Controls joysticks to suit the new control system if this is required to interface with the new control system being proposed. However, the Contractor at a minimum must maintain the current functionality of the Operator's Console as indicated in drawing No. 06189-06.
- 2.7 Contractor shall provide phase loss, undervoltage protection and a list of other protection relays proposed. Contractor shall provide motor temperature monitoring and ground fault monitoring for each motor.
- 2.8 The Speed Crane is equipped with a recent RaycoWylie load limiter (contact is Rayco Wylie 2440 Dalton st., Quebec. 418 266-6600 Att Christian Roy). The contractor will include the limitation signal on load raising with a dry contact, on each hoist to stop when reaching 100% load limit.

3. Technical specifications

- 3.1 Currently the installed 'Fault Indication Panel' and trip protections includes :

- Stack Overtemperature;
- Stack Fuse Blown;
- Motor Overload;
- Electronic Overload;
- Field Failed;
- Phase Loss/Rotation;
- External Interlock;
- Undervoltage.

The Contractor's proposed system must at a minimum include all the faults currently being monitored and system's shutdown. The internal protections and fault detection of each drive shall supply a dry contact to be connected to the ship's Cimplicity monitoring system.

- 3.2 Contractor shall provide connection to vessel Power Management System and retrofit to Main Engine Permissives and Shore Power status. An interlock must be fitted to prevent the ship from blacking out due to high load while operating the Speed Crane. This interlock will prevent blackout situations while the vessel is on Ship Service and Shore Power through interlocks with the Power Management System. The present interlock allows the Speedcrane to be used only at slow speed and a single drive at a time while on Shore Power or Ship Service Generator to prevent blacking out the ship from undervoltage. The Contractor shall provide the same interlock

functionality. The current system monitors the status of the relevant Power Plant breakers via the Power Management System to activate or inhibit interlocks.

- 3.3 Contractor shall ensure all electrical equipment, control system equipment and its installation are in accordance with: TP 127E latest revision. All individual wiring terminations to be labeled for identification purposes. All cables entering or leaving Control Cabinets or remote controls to be tagged at each cable end. All bulkhead penetrations are to be tagged on both sides of bulkhead with proper cable tags.
- 3.4 Contractor to submit an Inspection and Test Plan (ITP) for approval to the Chief Engineer and onboard Electrical Officer two weeks prior to energizing system. The ITP shall be typewritten and presented in table format. The table format shall include 3 columns; the first column shall be the description of the item being inspected or tested and the second and third column shall be 'Yes' or 'No' columns as to whether the item meets the work described in the first column. Each item listed in the first column shall be numbered for ease in reading the ITP.

4. Commissioning

- 4.1 Contractor shall setup and test all peripheral connections of the newly installed system prior to Startup and Commissioning.
- 4.2 Contractor shall Startup and Commission newly installed system notifying the Chief Engineer prior to having the system run-up. The Contractor shall perform functional tests of the newly installed equipment to ensure it meets baseline performance at a minimum providing 3 copies of the results to the Chief Engineer within 24 hours of the tests being completed. **Note:** The Contractor shall provide 48 hours prior to the system being ready for run-up in-order to ensure crew and personnel are available to conduct the tests. The results from the functional tests must at a minimum meet the 'Pre-Modification' trials baseline recorded in 2.1.
- 4.3 Contractor shall provide 6 hours of training on newly installed drives and associated equipment for vessels crew. This will be completed in Quebec Coast Guard Base within 72 hours of commissioning. Training will be required for the Chief Engineer(s), Senior Engineer(s), Electrician(s) and crane operators(s). Two (2) hours shall be dedicated to the crane operator's training (working principles and operations of the system), two (2) hours shall be dedicated to the engine personnel as more detailed system operations and basic troubleshooting and two (2) hours to the electricians for the advance trouble shooting and basic plc training. Training session should be with a french speaking trainer.
- 4.4 Load test will be conducted at end of commissioning (with TC/Ship inspectors if needed) with the ship's personnel. CCG will supply load and personnel to conduct these tests with the assistance of the contractor, a minimum period of 5 hours is needed to perform. Recently, April 2014, tests conducted needed loads 39000 pounds / 20 tons, 17600 pounds / 8 tons and 11040 pounds / 5 tons with topping and slewing perform at their limits. The contractor shall provided a testing plan in accordance with TC/Ship inspection request one (1) week before the performance.

5. Mandatory Requirements

- 5.1 Contractor shall submit their proposal along with a technical description of the system being proposed. The technical description must describe the exact system being proposed along with all Auxiliary hardware.

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- 5.2 Contractor shall demonstrate Marine Drive or similar experience providing three (3) project examples in the past twenty-four months (24) of work conducted onboard marine vessels or similar crane applications; and shall be onsite for the entire installation.
- 5.3 Contractor must ensure that all components of the proposed system are Marine Rated. Equipment to comply with current TP-127E regulations and shall meet CSA or UL standards. Equipment shall be fully in accordance in IEEE Std 45. The data sheets for the components being proposed must be provided one (1) week after contract award indicating that all components meet these standards.
- 5.4 Contractor must provide on-site technical support for proposed system within 48 hours and indicate who will provide this service. The contractor shall give a rapid after sale support of at least one year (warranty period) after commissioning. Ship's sailing territory is usually between Sept-Iles and Montreal region, and home base is at Quebec City. First line service should be by phone and webmail for trouble shooting, and if needed on-vessel service at or from our home base (travel expenses from Quebec base covered by CCG).
- 5.5 Contractor shall provide protection from Propulsion System cyclo-converter Drive generated noise and other ship systems noises. Contractor shall clearly identify the method used to minimize drive related noises so as not to interfere with other ship systems. This will be at a minimum accomplished by supplying and installing non-linear drive rated isolation transformers suitable for marine applications.
- 5.6 The existing cabinets are 1720 mm High, 570 mm Deep and Length Overall (sum of widths) 2937 mm. Contractor must ensure that his proposed package fits within this space envelope.
- 5.7 The contractor will validate and include the TC/Ships inspection needs, if needed drawings approval, on site visits, final tests and certificates. A provision of 4000\$ shall be included in the proposal, adjustment made at end with the final costs.

6. Deliverables

- 6.1 Contractor shall provide 3 copies of the results of "Pre-modification" trials to establish the baseline performance to the chief engineer within 24 hours. Ref 2.1
- 6.2 Contractor shall provide 3 copies of drawings for the new configuration of Speed Crane drives along with 3 copies of relevant manuals upon completion of installation and subsequent commissioning of the new Speed Crane drive system.
- 6.3 Contractor shall provide 3 copies of the Inspection and Test Plan (ITP) after completion.
- 6.4 Contractor shall provide a complete document package including at a minimum all interconnection drawings, PLC programming and Drive parameter list. The document package must be typewritten and delivered one (1) week after commissioning the system.
- 6.5 Contractor shall provide to vessel C/E the latest version of all softwares, programs, software licences and special cables if needed to connect with a PC, and access to these programs with basic training to the electrical officers. This will ensure that CCG personnel will be able to connect with the drives and others PLC.

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- 6.6 Contractor will provide the TC/Ships inspection approved drawings and final tests certificates. The contractor shall be provided a load testing plan in accordance with TC/Ship inspection request one (1) week before the performance.
- 6.7 Contractor shall provide a complete list of all new installed parts (quantity, part number and supplier/manufacturer), and high-light the essential spares (recommended on board spare part list) to the CCG representative for the proposed system no later than one (1) week after contract award. A provision of 20 000\$ for essential spares shall be included in the proposal, adjustments to be made at end with the final costs.

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ANNEX B

BASIS OF PAYMENT

| Item | Description | Firm Price CAD |
|----------------------------|--|---------------------------|
| 1 | Known Work For the replacement of the obsolete Cortina Speed Crane main hoist (20 Tons) and auxiliary hoists (8 and 5 tons) drive system with a modern system which shall be more readily supportable in availability of parts and technical guidance as specified in Annex "A". | \$ _____ |
| | Applicable taxes | \$ _____ |
| A) TOTAL FIRM PRICE | | \$ _____ |

ANNEX C

INSURANCE REQUIREMENTS

C.1 Ship Repairers' Liability Insurance (2014-06-26)

1. The Contractor must obtain Ship Repairer's 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 in the annual aggregate.
2. The Ship Repairer's Liability insurance 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 as additional insured should read as follows: Canada, represented by Public Works and Government Services Canada.
 - b. Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Fisheries and Oceans Canada – Canadian Coast Guard and Public Works and Government Services Canada for any and all loss of or damage to the vessel, however caused.
 - c. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.
 - d. 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.
 - 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.

C.2 Commercial General Liability Insurance (2014-06-26)

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 in the annual aggregate.
2. The Commercial General Liability 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.

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- 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.

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ANNEXE D

Mandatory Technical Requirements

| | Requirements | Compliant | Non-Compliant | Bidder's Specifications (should indicate the reference to the technical specifications of the proposed product or indicate the exact information) |
|---|--|-----------|---------------|--|
| 1 | Contractor shall submit their proposal along with a technical description of the system being proposed. The technical description must describe the exact system being proposed along with all Auxiliary hardware. | | | |
| 2 | Contractor shall describe how he will provide protection from Propulsion System cyclo-converter Drive generated noise and other ship systems noises. Contractor shall clearly identify the method used to minimize drive related noises so as not to interfere with other ship systems. This will be at a minimum accomplished by supplying and installing non-linear drive rated isolation transformers suitable for marine applications. | | | |
| 3 | Contractor must ensure that his proposed package fits within this space envelope. The existing cabinets are 1720 mm High, 570 mm Deep and Length Overall (sum of widths) 2937 mm. | | | |
| 4 | Contractor shall demonstrate Marine Drive or similar experience providing three (3) project examples in the past twenty-for months (24) of work conducted onboard marine vessels or similar crane applications; and shall be onsite for the entire installation. A project worth approximately \$150,000.00 CAD or more with similar complexity as required in Annex A.. For each similar projects bidders must provide at least the following information: - Project Title: _____; - Project Final Value: _____; - Project description and photo(s) of the final result: _____; ; - Capacity characteristics /complexity characteristics of system: _____ | | | |

