

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:**
**Bid Receiving Public Works and Government
Services Canada/Réception des soumissions
Travaux publics et Services gouvernementaux
Canada**
**1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
B3J 1T3
Bid Fax: (902) 496-5016**

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 Knuckleboom Crane		
Solicitation No. - N° de l'invitation F5561-152001/A	Date 2014-09-29	
Client Reference No. - N° de référence du client F5561-15-2001		
GETS Reference No. - N° de référence de SEAG PW-\$HAL-403-9342		
File No. - N° de dossier HAL-4-73089 (403)	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2014-10-15		Time Zone Fuseau horaire Atlantic Daylight Saving Time ADT
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: Brow, Theresa		Buyer Id - Id de l'acheteur hal403
Telephone No. - N° de téléphone (902) 496-5166 ()		FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF FISHERIES AND OCEANS MARITIMES REGIONAL HQ BLDG 50 DISCOVERY DR - LEVEL 4 DARTMOUTH Nova Scotia B2Y4A2 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

Atlantic Region Acquisitions/Région de l'Atlantique
Acquisitions
1713 Bedford Row
Halifax, N.S./Halifax, (N.É.)
B3J 3C9
Nova Scot

Delivery Required - Livraison exigée 1 Aug 2015	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. Security Requirement

There is no security requirement associated with this bid solicitation.

2. Requirement

The requirement is detailed in **Annex "A" - Requirement**.

3. Debriefings

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

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

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

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

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

The **2003 (2014-09-25) Standard Instructions - Goods or Services - Competitive Requirements**, are incorporated by reference into and form part of the bid solicitation.

Bidders who are incorporated or who are a sole proprietorship, including those bidding as a joint venture, have already provided a list of names of all individuals who are directors of the Bidder, or the name of the owner, at the time of submitting an arrangement under the Request for Supply Arrangement (RFSA). These bidders must diligently maintain this list up-to-date by informing Canada in writing of any change occurring during the validity period of the bid as well as during the period of any contract arising from this bid solicitation.

Canada may, at any time, request that a Bidder provide properly completed and Signed Consent Forms (Consent to a Criminal Record Verification form - PWGSC-TPSGC 229) for any or all individuals aforementioned within the time specified. Failure to provide such Consent Forms within the time period provided will result in the bid being declared non-responsive.

1.1 SACC Manual Clauses

B3000T (2006-08-16) Equivalent Products

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.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than **five (5) calendar days** before the bid closing date. Enquiries received after that time may not be answered.

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

4. Applicable Laws

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

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

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

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

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

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

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

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

In **April 2006**, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](#)

(<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

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

Section I: Technical Bid

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

Section II: Financial Bid

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

1.1 Exchange Rate Fluctuation

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

Section III: Certifications

Bidders must submit the certifications required under **Part 5**.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

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

1.1 Technical Evaluation

1.1.1 Mandatory Technical Criteria

See **Annex "A" Requirement**

1.2 Financial Evaluation

A0220T (2013-04-25), Evaluation of Price

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 documentation to be awarded a contract.

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

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

1. Mandatory Certifications Required Precedent to Contract Award

1.1 Code of Conduct and Certifications - Related documentation

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

1.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

PART 6 - RESULTING CONTRACT CLAUSES

1. Security Requirement

There is no security requirement applicable to this Contract.

2. Requirement

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

3. Standard Clauses and Conditions

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

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

3.1 General Conditions

2010A (2014-09-25), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

4. Term of Contract

4.1 Delivery Date

While delivery is requested by August 1, 2015, *the best delivery that could be offered is*
 _____ (*<----- to be completed by bidder*)

5. Authorities

5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Theresa Brow
 Title: Supply Specialist
 Public Works and Government Services Canada
 Address: 1713 Bedford Row
 Halifax, NS B3J 3M9
 Telephone: (902) 496-5166
 Facsimile: (902) 496-5016
 E-mail address: theresa.brow@pwgsc-tpsgc.gc.ca

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

5.2 Project Authority

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

5.3 Contractor's Representative (<----- to be completed by bidder)

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone : _____

Facsimile: _____

E-mail address: _____

6. Payment

6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex B for a cost of \$ **To be announced at contract award** Customs duties are included and Applicable Taxes are extra.

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

6.2 Limitation of Price

C6000C (2011-05-16) Limitation of Price

6.3 Single Payment

H1000C (2008-05-12) Single Payment

7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original and two (2) copies must be forwarded to the address shown on page 1 of the Contract for certification and payment.

8. Certifications

8.1 Compliance

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

9. Applicable Laws

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

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 **2010A (2014-09-25)** General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ (*insert date of bid*)

ANNEX "A"
REQUIREMENT

Part 1: PURPOSE

- 1.1 This statement of requirements is intended to provide a guide for Contractors when preparing proposals for the supply of one (1) electro-hydraulic, “Knuckleboom” type crane for the CCGS Earl Grey.
- 1.2 The new crane will replace the previous Knuckleboom crane which is fitted forward of the wheelhouse, centerline at Fr. 45-46 on the Forecastle Deck.
- 1.3 The ship will be made available for the viewing of project requirements at the Bedford Institute of Oceanography, Dartmouth, NS.
- 1.4 Proposals must demonstrate an understanding of all the requirements described in this document. The proposals will be evaluated on the basis of the following criteria:
- a. Demonstrated completeness and quality of the proposal. This is best achieved by responding to each section of this document and stating and / or showing that its requirements are understood. (Ref. Sections 1.1 and entire document).
 - b. Demonstrated marine experience of the Crane Manufacturer and Sub-Contractors (Ref. Sections 2.1, 2.2, 2.3) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**
 - c. Regional lifecycle support capability of the Crane Supplier (Ref. Section 2.3) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**

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- d. Ability of the Crane to meet Operational Requirements (Ref. Sections 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.7, 3.8) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**
 - e. Ability of the Crane to meet Technical Requirements (Ref. Sections 4.1, 4.2, 4.4, 4.5, 4.7, 4.8, 4.9) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**
 - f. Ability to meet Delivery Requirements (Ref. Sections 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7) = **Potential Contractors must demonstrate evidence of meeting this requirement or be deemed non-compliant.**

Part 2: GENERAL REQUIREMENTS

- 2.1 The new marine knuckle boom crane shall be of an established marine design, operationally proven on ships in Eastern Canadian / North Atlantic waters on a year-round basis. Contact references for a minimum of three (3) installations shall be included with the bid. Negative feedback will deem the bid non responsive.
- 2.2 The proposed knuckle boom crane design shall be fully approved by at least one recognized member of the International Association of Classification Societies (IACS) and the Delegated Statutory Inspection Program (DSIP). Appropriate classification society approval document(s) for proposed crane must be included with Contractors' proposals.
- 2.3 The knuckle boom crane shall be supported by a **service and parts facility** located within the ship's operational area which is the province of Nova Scotia. Proposals are to identify the location of this facility, the services offered and key personnel.
- 2.4 The deliverables shall include the engineering, construction, and certification for the Knuckleboom crane and pedestal.

Part 3: OPERATIONAL REQUIREMENTS

- 3.1** The proposed knuckleboom crane shall have a lifting capacity of 12 – 13 tonne-meters (118 – 129 KNm) with a Safe Working Load (SWL) of 1.1 – 1.0 tonnes at a “hydraulic reach” of 11.5 – 12.0 meters with a safety factor of 5. All bidders are to clearly state the lifting capacity of their proposed crane. “Hydraulic reach” is the outreach of the crane using only the hydraulically telescoping boom sections.
- 3.2** The bare crane shall not exceed 2400 kg in mass, and when stowed, shall not be higher than 2.6 m or wider than 3.4 m.
- 3.3** The proposed knuckleboom crane shall be capable of achieving this lifting capability when the ship is heeled to either port or starboard, and trimmed either forward or aft. All bidders are to clearly state the maximum static angles of heel (list) and trim that the ship is permitted to have while achieving the full lifting capacity of their proposed crane. The maximum static angle of heel or trim shall be within the range of 6 to 8 degrees.
- 3.4** The proposed knuckleboom crane shall have a 380-410 degree slewing range fitted with a double rack and pinion slewing system fitted with an oil bath arrangement. All bidders are to clearly state the slewing range of the proposed crane.
- 3.5** The proposed knuckleboom crane shall be capable of simultaneous operation of the slew, luff and hoisting features.
- 3.6** The crane's winch shall be of a planetary TC2 design or equivalent with the following capabilities:
- 3.6.1** Hoisting (line pull) capability of 2700 KG with a bare drum and 1800 KG with a full drum (44 meters) of 11 mm wire,
- 3.6.2** Automatic braking arrangement with proportional control providing variable speeds from creeping (1 m/min) to maximum speed,

3.6.3 Anti-two block safety incorporated and operable,

3.6.4 Capability to be lowered in an emergency situation such as loss of electrical power.

All proposals shall clearly indicate the maximum speed and capacity of the crane's winch and describe the winch speed control features.

- 3.7** The proposed knuckleboom crane shall be supplied complete with one (1) hand-held, wireless, remote control operating system, backed up by controls mounted on the crane /pedestal/stand with weatherproof cover per crane. The remote control unit be fitted with an emergency stop switch. The remote control unit and associated gear shall be suited to shipboard service at sea, and shall allow full functionality of the proposed knuckleboom crane. Potential Contractors are to provide a detailed description of their remote control units as part of their proposal, and indicate those features which make them suitable for this application.
- 3.8** Bidders shall identify all the safety features of their proposed crane including overload protection, load retaining capabilities of winch / cylinders, and system / operator protection in the event of a hydraulics failure.

Part 4: PROOF OF PERFORMANCE

- 4.1** Unless specified otherwise, all supplied components, materials and installations shall be adequate to meet the following minimum service conditions:

4.1.1 Outside Air Temperature of -40 °C to +35 °C;

4.1.2 Wind Velocity of 50 Knots;

4.1.3 Sea State of 1 (calm).

It is recognized that these service conditions exceed the requirements of classification societies. If these conditions are not fully satisfied, bidders are to clearly state the extent to which their proposed crane meet the specified service conditions.

- 4.2** Unless noted otherwise, all components of the knuckleboom crane are to be corrosion-resistant to ensure long-lasting protection against corrosion in a salt-water marine environment. Bidders are to provide a detailed description of the materials and anti-corrosive treatments to be used as part of their proposals.

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- 4.3** The deck seat and pedestal of the proposed crane shall be located forward of the wheelhouse at Fr. 45-46 on the Forecastle Deck. A new deck seat will be fabricated for the forward crane. Fabrication of the deck seat is not to be addressed by this contract.
- 4.4** The proposed knuckleboom crane shall be capable of utilizing hydraulic power generated from a shipboard fitted system from Westec Equipment Ltd. Two pumps are currently available. Pump in current use (Uchida Model A7V40DR1RPF00 variable displacement) has rating of 0-40.1 cc/rev (0 -47L/min) at rated pressure of 320kgf/cm² (32 MPa). Pump not in use is Uchida A7V78DR1LPF00.
Electric motor for the pumpset is Manufacturer ETATECH
Model 7114135
Type CF5
Frame No. 405T
Power 75 HP
Speed 1170
Voltage 575/3/60
Insulation Class "F"
Service Rating Continuous
Design - "C"
- Bidders shall create the size of their mounting arrangement for the crane footprint based upon the existing deck seat and the requirement to move the new mounted crane 150mm further aft (if possible). This will increase the horizontal distance between the anchor windlass and the crane.
- 4.5** The crane is to operate from an existing electrical supply of 600V/3ph/60Hz. The suitability of the existing electrical supply arrangements are to be surveyed and confirmed by the Bidder, or an Engineering Consultant employed by the Bidder.
- 4.6** All required electrical work shall conform to the requirements of the Transport Canada Publication TP127 – Ships Electrical Standards.
- 4.7** All hydraulic tubing shall be of one-piece, seamless, annealed stainless steel (AISI 316) construction. All hydraulic hoses shall be SAE 100R2 high-pressure, steel wire reinforced, rubber-covered hydraulic hose. To the greatest extent possible, all hydraulic fittings, adapters and other connections shall be JIC Standard, high pressure, flareless, reusable, stainless steel (AISI 316) type. Bidders are to clearly identify the extent to which they meet this requirement in their proposal.

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- 4.8** Wire ropes shall be of non-rotating or rotation-resistant, right regular lay and IWRC construction. The breaking tensile strength shall be not less than six times the safe working load of the crane.
- 4.9** All crane components of carbon steel construction are to be abrasive blasted to “near white” blast (SSPC-SP 10) prior to coating and then be coated with a crane coating system in accordance with ISO 12944-6 for a Class C5M environment. Special attention shall be given to those areas, such as the interior of boom sections and other hard-to-reach areas that will not be subject to touch-up painting when the crane is in service. All extension booms shall be hot dip galvanized. The crane and hydraulic power unit shall have an overall topcoat finish in " Interlac665 E143 Buff or RAL 070-7040" to match other deck machinery on the ship. Contractors are to fully describe the coatings scheme that will be used including those features that make their crane especially suitable for shipboard service. This shall also extend to designs that do not have open penetrations in the main crane column for the passage of hydraulic hoses.
- 4.10** Once the new knuckleboom crane is installed (under separate contract), the completed installation will be subjected to tests in accordance with the Canada Shipping Act, 2001 – Cargo, Fumigation, and Tackle Regulations which require crane in this range to be subjected to a Proof Load Test of 1.25 times the SWL.

Part 5: DELIVERY REQUIREMENTS

- 5.1** The Contractor shall deliver the new knuckleboom crane to the CCGS Earl Grey, c/o CCG Warehouse, 13 Akerley Blvd., Dartmouth, NS. Delivery shall be no later than 01 August, 2015.
- 5.2** The knuckleboom crane shall be delivered complete with its corresponding winch, wire rope, remote control unit and any other components required for a fully operational system.
- 5.3** All components of the proposed knuckleboom crane are to be effectively preserved, packaged and protected for shipment with the possibility of outside storage prior to installation. Any damages incurred during shipment and storage due to inadequate protection or improper handling are to be the sole responsibility of the Contractor and/or those acting on the Contractor's behalf.
- 5.4** Delivery of the proposed knuckleboom crane shall include all necessary **spare parts** and special **tools** required for installation, testing, commissioning and trials and shall be included for each of the new crane.

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- 5.5** The Bidder shall supply all drawings and specifications, in the English language, in both electronic and paper formats. The electronic formats shall be compatible with Microsoft, Adobe, and / or AutoCAD.
- 5.6** The Contractor shall deliver to the above address, three (3) copies of all test certificates for all wire ropes, shackles, sheaves, and hooks that form part of the proposed knuckleboom crane. These certificates are to be manufacturer / supplier test certificates documenting the test loads and / or breaking strengths of all supplied items and materials.
- 5.7** The Contractor shall deliver to the above address, three (3) copies, in both electronic and paper formats, of comprehensive manuals describing the full installation, operation, and maintenance requirements of the new knuckleboom crane. The manuals are to be completely legible and written in the English language. French language manuals shall also be included should they be available.

ANNEX "B"
BASIS OF PAYMENT

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price. **FOB Destination.** Customs duties are included and Applicable Taxes are extra.

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

Note: In order to be considered compliant with this solicitation document, bidders are required to complete the pricing table below.

* Pricing shall **exclude** HST.

Description	Unit of Issue	* Price
One (1) electro-hydraulic, "Knuckleboom" type crane for the CCGS Earl Grey.	EACH	\$
Two (2) additional electro-hydraulic, "Knuckleboom" type crane for the CCGS Earl Grey within 24 months of contract award..	EACH	\$