

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 D200 Crane Replacement	
Solicitation No. - N° de l'invitation W355B-151464/A	Date 2014-11-07
Client Reference No. - N° de référence du client W355B-15-1464	
GETS Reference No. - N° de référence de SEAG PW-\$HAL-122-5145	
File No. - N° de dossier HAL-4-72036 (122)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-01-06	Time Zone Fuseau horaire Atlantic Standard Time AST
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: Chinye (HAL), Chukwudi	Buyer Id - Id de l'acheteur hal122
Telephone No. - N° de téléphone (902) 496-5476 ()	FAX No. - N° de FAX (902) 496-5016
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE FMF CAPE SCOTT, HMC DOCKYARD BLDG D200 DR 13 7HD HALIFAX NOVA SCOTIA B3K5X5 Canada	

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

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

Solicitation No. - N° de l'invitation

W355B-151464/A

Amd. No. - N° de la modif.

File No. - N° du dossier

HAL-4-72036

Buyer ID - Id de l'acheteur

hal122

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

W355B-15-1464

CCC No./N° CCC - FMS No/ N° VME

The bid solicitation package is to be inserted at this point and forms part of this document.

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PART 1 - GENERAL INFORMATION

1.1 Requirement

Department of National Defence has a requirement for a goods contract for the furnishings of all labour, material, transportation, delivery, installation, and testing of two-ten(10) ton and one (1)-fifteen ton capacity top running double girder (TRDG) cranes (trolley and Hoist) in building D200, Fleet Maintenance Facility, Cape Scott, Halifax, NS in accordance with Annex A -Statement Of Requirement and attached drawings and specifications..

1.2 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.

1.3 Trade Agreements

The requirement is subject to the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT)."

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.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days

Insert: 90 days

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 (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 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 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

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (one hard copy)

Section II: Financial Bid (one hard copy)

Section III: Certifications (one hard copy)

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

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

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

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

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and

- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

Section I: Technical Bid

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

Section II: Financial Bid

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

3.1.1 Exchange Rate Fluctuation

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

3.1.2 SACC Manual Clauses

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.

4.1.1.1 Mandatory Technical Criteria

A BID MUST MEET ALL OF THE MANDATORY REQUIREMENTS STATED BELOW TO BE CONSIDERED COMPLIANT. BIDDER'S NOT MEETING ALL OF THE MANDATORY REQUIREMENTS BELOW WILL BE DEEMED NON- RESPONSIVE AND GIVEN NO FURTHER CONSIDERATION.

MANDATORY requirement at solicitation closing date

Bidder's must possess a minimum of five (5) years related experience in supply and install of cranes. Bidder's MUST use the tables below to list two (2) projects/ contracts (one for each project).

PROJECT/CONTRACT NO. 1	
Name of client organization or Company Name: _____	
Name and title of client contact	Name: _____ Title: _____
Telephone and facsimile number of	Phone No.: _____

Solicitation No. - N° de l'invitation
W355B-151464/A
Client Ref. No. - N° de réf. du client
W355B-15-1464

Amd. No. - N° de la modif.
File No. - N° du dossier
HAL-4-72036

Buyer ID - Id de l'acheteur
hal122
CCC No./N° CCC - FMS No./N° VME

client contact	Fax No.: _____
Start date of Project/Contract	Month _____ Year _____
Completion date of Project/Contract	Month _____ Year _____
Brief Description of Project or Contract: _____ _____ _____ _____ _____ _____ _____	

PROJECT/CONTRACT NO. 2	
Name of client organization or Company Name: _____	
Name and title of client contact	Name: _____ Title: _____
Telephone and facsimile number of client contact	Phone No.: _____ Fax No.: _____
Start date of Project/Contract	Month _____ Year _____
Completion date of Project/Contract	Month _____ Year _____
Brief Description of Project or Contract: _____ _____ _____ _____ _____ _____ _____	

4.1.2 Financial Evaluation

SACC Manual Clause A0220T (2014-06-26), Evaluation of Price

4.2 Basis of Selection

4.2.1 Basis of Selection

SACC Manual Clause (A0069T) (2007-05-25), Basis of Selection

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 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 [Employment and Social Development Canada \(ESDC\) - 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](#)" list at the time of contract award.

5.1.3 Additional Certifications Precedent to Contract Award

The certification 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.

5.1.3.1 Approved Certification for Journeymen

All Tradesperson must be journeymen and in possession of a valid trade proficiency certificates acceptable to Nova Scotia Department of Labour. Journeymen must hold a **valid** Nova Scotia Labour and advanced Education Certified Welder Card or a **Valid** Nova Scotia Labour and Workforce Development Certified welder Card. Evidence can be submitted with the bid at bid closing or within 7 calendar days of the written request by the Contracting Authority, the successful Bidder must submit evidence demonstrating its certification to the welding standards. Failure to comply with the request will result in the offer being declared non-responsive

5.1.3.2 Workers Compensation Certification- Letter of Good Standing

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

The Bidder must provide, within seven (7) days following a request from the Contracting Authority, a certificate or letter from the applicable Workers' Compensation Board confirming the Bidder's good standing account. Failure to comply with the request may result in the bid being declared non-responsive.

5.1.3.3 Status and Availability of Resources

The Bidder certifies that, should it be awarded a contract as a result of the bid solicitation, every individual proposed in its bid will be available to perform the Work as required by Canada's representatives and at the time specified in the bid solicitation or agreed to with Canada's representatives. If for reasons beyond its control, the Bidder is unable to provide the services of an individual named in its bid, the Bidder may propose a substitute with similar qualifications and experience. The Bidder must advise the Contracting Authority of the reason for the substitution and provide the name, qu

alifications and experience of the proposed replacement. For the purposes of this clause, only the following reasons will be considered as beyond the control of the Bidder: death, sickness, maternity and parental leave, retirement, resignation, dismissal for cause or termination of an agreement for default.

If the Bidder has proposed any individual who is not an employee of the Bidder, the Bidder certifies that it has the permission from that individual to propose his/her services in relation to the Work to be performed and to submit his/her résumé to Canada. The Bidder must, upon request from the Contracting Authority, provide a written confirmation, signed by the individual, of the permission given to the Bidder and of his/her availability. Failure to comply with the request may result in the bid being declared non-responsive.

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Requirement

The Contractor must provide the supply and installation of two (2)- ten ton and One (1)- fifteen ton capacity TRDG crane, in accordance with the Requirement at Annex "A".

6.3 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.

6.3.1 General Conditions

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

6.4 Term of Contract

6.4.1 Delivery Date

All the deliverables must be received on or before March 31, 2015.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Chukwudi Chinye
Title: Real Property Contracting Officer
Public Works and Government Services Canada
Acquisitions Branch
Address: 1713 Bedford Row, Halifax, NS B3J 3C9
Telephone: 902-496-5476
Facsimile: 902-496-5016

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.

6.5.2 Project Authority

The Project Authority for the Contract is: **(To be determined at contract award)**

Name: _____
Title: _____
Organization: _____

Solicitation No. - N° de l'invitation
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Amd. No. - N° de la modif.
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HAL-4-72036

Buyer ID - Id de l'acheteur
hal122
CCC No./N° CCC - FMS No./N° VME

Address: _____

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

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

6.5.3 Contractor's Representative (To be completed by bidder)

Name: _____
Telephone Number: _____
Cellular Number: _____
Facsimile Number: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex B for a cost of \$_____ **(To be determined at contract award)**. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is 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.

6.6.2 Limitation of Price

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

6.6.3 Single Payment

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all such documents have been verified by Canada;
- c. the Work delivered has been accepted by Canada.

6.6.4 SACC Manual Clauses

T1204 - Direct Request by Customer Department-A9117C-2007-11-30

6.6.5 Clauses du Guide des CCUA

Shipping Instructions - Free on Board Destination and Delivered Duty Paid

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

FOB Destination Shipping and Receiving, FMF Cape Scott HMC Dockyard, Maritime Forces Atlantic, Door 13 Building, D-200, Halifax, NS, B3K 5X5, Halifax, Nova Scotia including all delivery charges, offloading, administration, insurance costs and risks of transport, customs clearance and customs duties and Applicable Taxes to the destination as identified in the contract.

6.7 Invoicing Instructions

The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions or requirements. Invoices cannot be submitted until all work identified in the invoice is completed.

- (a) The original and two (2) copies must be forwarded to the following address for certification and payment.

Department of National Defence
Maritime Forces Atlantic. FMF Cape Scott
Building D200, Finance, 3rd Floor
P.O Box 99000, STN Forces
Dartmouth, NS
B3K 5X5

6.8 Certifications

6.8.1 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.

6.8.2 Certifications - Contract

Compliance with the certifications 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 or 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.

6.9 Applicable Laws

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

6.10 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-Goods(medium Complexity));
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) Annex C, Electrical Certification Requirement;
- (f) Annex D, Insurance Requirements
- (g) Annex E, **Integrity Provisions - Associated Information**
- (h) the Contractor's bid dated _____ (*insert date of bid*)

6.11 SACC Manual Clauses

Canadian Forces Site Regulations-A9062C-2011-05-16

Electrical Equipment-2006-06-16-B1501C

Inspection and Acceptance-2014-06-26-D5328C

Workers Compensation A0285C- 2007-05-25

6.12 Insurance – Specific Requirements

The Contractor must comply with the insurance requirements specified in Annex D . 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 (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. For Canadian-based Contractors, coverage must be placed with an Insurer licensed to carry out business in Canada, however, for Foreign-based Contractors, coverage must be placed with an Insurer with an A.M. Best Rating no less than "A-". The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

ANNEX "A"

REQUIREMENT

Provide and Install the following:

Furnish all labor, materials, equipment and incidentals required to re-fit, install, field test, complete and make ready for service as required below.

1. All of the following **shall be new** equipment only.
2. Requirement to supply and install **two (2) - ten (10) ton & one (1) - fifteen (15) ton** capacity TRDG (top running double girder) cranes (trolley & hoist). Cranes to be installed in building D200, Fleet Maintenance Facility Cape Scott, Halifax, NS on existing bridge structures.

2.1 Ten (10) ton crane specifications:

1. 10 ton capacity (20000 lbs)
2. VFD motors and drives
3. RF remote control
4. one (1) hoist hook
5. hook swivel 360°
6. hoist type FEM M5 (2m)
7. trolley traversing duty group FEM M5 (2m)
8. trolley type: standard
9. ESR speed 24 ft/min
10. maximum weight of hoist and trolley 4000lbs
11. trolley traverse speed 0-65ft/min step less
12. hoist speed 0-19 ft/min step less
13. voltage (main) 600vac/3ph/60hz
 - a. A transformer may be used to lower the voltage to accommodate lower motor operating voltage (e.g. 440 or 480vac)
14. voltage (control) 110-120vac/1ph/60hz
15. hoisting height 7.750m
16. crane group CMMA C
17. trolley rail gauge 2.000metres
18. bridge travel group FEM M5 (2m)
19. bridge travel speed 0-100ft/min step less
20. total max amperage @ 600VAC: 40amps
21. maximum height to top of hoist 10metres

2.2 Fifteen (15) ton crane specifications:

1. 15 ton capacity (30000 lbs)
2. VFD motors and drives
3. RF remote control

-
4. one (1) hoist hook
 5. hook swivel 360°
 6. hoist type FEM M5 (2m)
 7. trolley traversing duty group FEM M5 (2m)
 8. trolley type: standard
 9. ESR speed 15 ft/min
 10. maximum weight of hoist and trolley 4000 lbs
 11. trolley traverse speed 0-65ft/min step less
 12. hoist speed 0-12 ft/min step less
 13. voltage (main) 600vac/3ph/60hz
 - i. 12.1 a transformer may be used to lower the voltage to accommodate lower operating motor voltage (e.g. 440-480vac)
 14. voltage (control) 110-120vac/1ph/60hz
 15. hoisting height 7.750m
 16. crane group CMMA C
 17. trolley rail gauge 2.000metres
 18. bridge travel group FEM M5 (2m)
 19. bridge travel speed 0-100ft/min step less
 20. total max amperage @ 600VAC: 40amps
 21. maximum height to top of hoist 10metres
3. Requirement to supply and install approximately 1200 feet of ground bus bar and accessories in two bays (centre & north) of building D200, FMFCS as described below in **section IA+IB**. This installation must tie in and be compatible with existing bus equipment and new crane equipment.
 4. Requirement to supply and install VFD controls, bridge drives, VFD rated motors, and brakes for three (3) TRDG cranes.
 5. Requirement to supply and install **wireless radio (RF) remote and local** (hard wired) **control** in three (3) TRDG cranes. Infrared (IR) control will not be accepted.
 - 5.1 Wireless radio remote control specifications:
 1. Belly box style
 2. lightweight
 3. ergonomic design
 4. minimum of two (2) joystick controllers
 5. digital and analog outputs
 6. manual frequency switch
 7. push buttons, toggle and rotary switch options
 8. rugged nylon or equivalent construction
 9. minimum NEMA 4 (IP65) rating
 10. dual access code system, signal only operates equipment intended
 11. NiMH rechargeable battery pack with minimum 8 hrs operating time
 12. mushroom E-stop
 13. shoulder/neck/waist strap
 14. LED/LCD display for load, speed, and system feedback data/info
 15. greater than six (6) unique programmable frequencies
 16. isolation plug or key

17. minimum 250ft operating range in industrial area
18. minimum 400ft operating range in obstructed area
19. 2.4Ghz operation frequency preferred but not mandatory
20. Additional functionality:
 - False Command Prevention: Wireless control receivers must be designed to accept only valid commands and those valid commands must come from only one authorized transmitter.
 - Inadvertent Command Prevention: The transmitter should not transmit a command unless the operator makes a purposeful action to issue a command.
 - Emergency Stop Override: In the event of an emergency, there must be a simple and readily accessible command that will take precedence over all other communications, stop the controlled equipment, and place the equipment in a safe mode.
 - Interrupted Transmission Failsafe: In the event that the receiver loses the command signal from the transmitter, the receiver must take action to place the controlled equipment in a safe mode.
 - Receiver Failsafe: In the event the receiver's electronics fail or lose power, the relays that control the equipment must fail to a safe mode of operation.

Example of belly box design



5.2 Local (hard wired) control specifications:

1. controls to mimic functionality of the belly box
 2. minimum two (2) joysticks
 3. digital and analog outputs
 4. push buttons, toggle switches, or rotary switch options
 5. minimum NEMA 4 (IP65) enclosure
 6. LED/LCD display for load, speed, and system feedback data/info
 7. mushroom E-stop
 8. permanently mounted in operators cabin
6. Requirement to supply and install bridge, trolley and hoist panel & controls in three (3) TRDG cranes.

7. Requirement to supply and install festoon system c/w track & supports on three (3) TRDG cranes.
8. Requirement to supply and install crane equipment that has been fully aligned, assembled, outfitted and **factory tested prior to arrival** on site of owner.
9. Requirement to supply and setup one (1) additional belly box radio remote control (usable on any of the three cranes installed).
10. Requirement to supply and install **all required** conduit, wire and fasteners to complete the crane systems.
11. Requirement to inspect existing bridge structure, equipment and rails and make recommendations on any defects or non-compliance items found.
12. A site visit is recommended prior to bidding due to the complexity of the building and its infrastructure. Existing crane documents/info can be requested at that time.
13. All equipment, motors, VFD controllers and panels shall be CSA approved or have an equivalent certification as outlined in this specification, section VIII Electrical Certification.

IA. Provide and Install the following:

Furnish all labor, materials, equipment and incidentals required to install, field test, complete and make ready for service as required.

1. Requirement to supply and install approximately 1200 feet of ground bus bar as per manufacturer's specifications (documents provided with parts). To be added to existing bus bar system. New bus bars are required to match the existing bus bars and meet or exceed any existing crane system standard. Delete as specified by your client
2. Requirement to supply and install 240 bus bar hanger extenders to extend existing bus bar hangers which will support new ground bus bar as per manufacturer's specifications.
3. Requirement to supply and install sixteen (16) sets of double collector shoes (one set per phase and ground on four (4) overhead cranes) as per manufacturer's specifications. Collector shoes are to meet or exceed rating of existing single collector shoes.
4. Requirement to supply and install grounding conductors and associated equipment to tie ground bus bar system to existing grounding grid in the building and to existing crane structure (bridge, trolley and hoist) via collector shoes as per current CEC.

5. Requirement to supply and install 150 feet of #6 AWG green ground cable from ground bus collector shoe assembly to crane control cabinet & main disconnect in operator's cabin in each of four (4) cranes. 600 feet total #6 AWG.
6. Requirement to supply and install 1/2" rigid conduit pipe, secured to the crane girder, to physically protect the insulated #6 AWG green ground cable from collector shoe assembly to the control panels and main switch located in the crane operator's cabin.
7. Requirement to supply and install all required conduit, wire and fasteners to complete system. Ground continuity is to be established throughout the entire system, less than three (3Ω) ohms measurable resistance upon completion.
8. A site visit is recommended prior to bidding due to the complexity of the building and its infrastructure. Crane documents/info can be requested at this time.

IB. Material (not a complete list)

1. FE-2008-2 G
2. Expansion assembly: FE-2008-2H10
3. Collectors (existing): C100V5
4. Tandem Collectors P-200-VT5
5. Hangers: FE-908-2SF
6. Power feeds: FE-2008-2CP

Refer to PDF file provided for more information and part numbers. Contractor must ensure parts provided are 100% compatible with existing system....Duct-o-Bar.

II. Tear Down / Demolition

Contractor is required to complete the following:

1. Meet with owner to discuss demolition method prior to work commencing.
2. Set up demo site, cordon off area below crane and make safe for workers / pedestrians below.
3. Disconnect collector shoes from crane and remove wiring.
4. Disconnect existing hoist and trolley and remove from crane. Hoist and trolley to be held for storage by owner (FMFCS).
5. Disconnect existing bridge drives and remove from crane (bridge structure to remain in place). Bridge drives to be held for storage by owner (FMFCS).
6. Disconnect existing / obsolete electrical control & power panels and remove from crane. Control & power panels to be held for storage by owner (FMFCS).
7. Disconnect existing festoon system and dispose of it.

8. Disconnect & remove all existing obsolete bridge wiring and dispose of it.
9. The use of diesel and propane machinery shall be subject to the building safety regulations provided for D200, CFB Halifax, FMFCS.
10. Floor loading restrictions are in place in this building. Equipment used for the demolition must first be approved by FMFCS for its use in the building.

III. Installation Considerations

1. Trolley stops shall be of sufficient size and strength for each crane's specified capacity and be **welded** on bridge structure. A design example can be provided for size, shape and material.
2. All bridge modifications that are made to accommodate the new trolley and hoists shall be identified before the contract commences and made part of this contract and quote.
3. Control & power panels for trolley, hoist and bridge shall be **permanently mounted** iaw CEC specifications on bridge walkway.
4. Bridge drives shall be **mounted and fit** on bridge walkway.
5. There shall be a new festoon system for the trolley for each of the three (3) cranes. They will be complete with cable supports across bridge end truck and to the control panel.
6. All wiring shall be terminated in control and power panels according to industry standard and inspected /tested to latest CSA or equivalent standard as outlined in this specification, section VIII and iaw latest version of CEC specifications.
7. All cranes shall be fitted with a lockable **isolation switch** in the operator's cabin so as to eliminate the possibility of crane control from local (cabin) controls and radio controls at the same time.
8. Collectors shall be of the double shoe type that are compatible with the existing Duct-O-Bar: FE-2008-2.
9. All hoist, trolley and bridge controllers, motors, VFDs and panels shall be CSA or equivalent certified as outlined in this specification, section VIII.
10. All control cabinets shall be equipped with temperature control systems to ensure crane controls do not overheat due to building ambient temperature.
11. Existing TRDG Crane specifications:
 - Capacity: 10 ton & 15 ton
 - Span: 28.650m/94ft

- Lifting Height: 7.750m
- Top of Rail: 8.73m
- Top of Hoist: 9.73m
- Power Supply: 575vac/3ph/60hz
- Control Voltage: 120vac/1 ph/60hz
- Lifting Speeds: 1.3, 3.0, 4.5, 6.0, 7.5, 9.2 (m/min)
- Trolley Speeds: 9.0, 25.0, 45.0 (m/min)
- Bridge Speeds: 9.0, 48.0, 90.0 (m/min)
- Existing Crane Design: C.S.A B167-1964 Class B Service

IV. General Notes:

1. The contractor shall provide all man lift equipment. Floor loading restrictions exist in the building where the demo/construction is to be done. All equipment shall be approved for use by the owner before demo/construction begins.
2. The contractor shall provide all lifting (cranes, etc.) equipment. Floor loading restrictions exist in the building where the demo/construction is to be done. All equipment shall be approved for use by the owner before demo/construction begins.
3. All lifting equipment (man lifts, cranes, etc.) shall be both certified by a licensed certification authority, in the province of Nova Scotia, for its intended use and have a current inspection sticker/document from that authority.
4. All work performed under this contract shall be done by certified trades people in the province of Nova Scotia. (e.g. electricians must be licensed in the province of Nova Scotia)
5. The contractor shall provide all equipment and material necessary to complete the contract. No equipment or material will be provided by the owner.
6. The contractor shall examine the site conditions affecting the work. **No compensation for extras will be allowed for failing to do so.**
7. The contractor shall give all notices, obtain all permits and approvals from the Nova Scotia Department of Labour as necessary and pay all necessary fees in order to carry out the specified work in this contract.
8. Contractor shall verify material, material quantities, part numbers and fittings required prior to submitting bid. **No compensation for extras will be allowed for failing to do so.**
9. Contractor is responsible for all cutting and patching required for the installation of mechanical work unless noted otherwise and shall refinish affected surfaces, as part of the contract, to match adjacent finish.

10. All equipment, debris and materials shall be picked up and kept out of the way of operations and disposed of offsite, at the contractor's expense, unless otherwise specified in this specification or by owner.
11. The contractor shall be responsible for disposing of all waste materials and debris, offsite, generated by the contractor. Contractor is to dispose of equipment and fittings removed (if necessary) from existing system unless otherwise specified in this specification or by owner.
12. A small laydown area for a trailer or sea can container may be provided for the storage of contractor tools and equipment on site. Security of this trailer or container is not guaranteed by FMFCS and is the responsibility of the contractor. Contractor shall give two (2) week notice to FMFCS Project Manager if this laydown area is required.
13. Guarantee: the contractor shall without additional charge replace any work, material or equipment which develops a defect within one (1) year of contract completion and acceptance by owner.
14. The work in this contract is to be performed in accordance with these notes, CEC and CSA B167-08 (or latest editions) and shall include furnishing all the labour, material, and equipment required to complete and leave ready for operation the overhead crane system.
15. Notice of hot work in the work area or FMFCS production interference will be given two days before it commences to the FMFCS Project Manager on site in writing (email or text message).

V. Special Instructions and/or Information:

1. A work schedule is to be developed by the contractor in conjunction with the owner to minimize negative impact on production in the affected area. This shall require the contractor to work between the hours of 1600 and 0700, Monday to Friday unless otherwise agreed upon by the contractor and the owner.
2. Only one crane shall be permitted to be installed at one time to minimize interference with production in the shops of D200. Order of installation will be as follows (unless otherwise agreed upon by contractor and owner: 1. North Bay (Chemical Cleaning) 2. South Bay (Plate Shop) 3. Centre Bay (Above Water Weapons)
3. The ground bar installation shall be done on its own, separate from the installation of the cranes to minimize the negative impact on the production areas in D200. Order of installation will be as follows (unless otherwise agreed upon by contractor and owner: 1. North Bay 2. Centre Bay.
4. A hazard assessment and contractor health and safety plan must be submitted to the FMFCS Project Manager prior to work beginning.

5. Bus bar to be tested over the entire length of the installation, electrically and mechanically for congruity and continuity from supply through to motors, control system and power system (CSA B167-08 and CEC latest editions).
6. All electrical parts supplied must meet CSA or equivalent as outlined in this specification, section VIII.
7. All work must be performed to standard as per CSA B167-08 (or latest edition) for Overhead Travelling Cranes and the current Canadian Electrical Code.
8. There are two cranes in each bay of D200 which are powered from the same 600VAC/3Ø supply via Duct-O-Bar. Only one crane in each bay will be replaced with the new VFD controlled cranes under this contract. It shall be necessary to leave the other crane, not being replaced, serviceable during the hours of 0700-1600 whenever possible during the construction/demolition periods of this contract. The Project Manager for FMFCS shall be notified (in writing) to the contrary at least 24 hours before such downtime.
9. Drawings, specifications and documentation to be provided to owner before work begins (for approval) and "as built" drawings, specifications and documentation to be provided to owner upon contract conclusion. All drawings, specs and designs submitted for approval / as built must have an engineer's stamp attached from the Province of Nova Scotia.
10. Shop drawings of **all** equipment to be used on this contract shall be provided to FMFCS for approval prior to contract commencing."

VI. Commissioning

1. Commissioning of new cranes and ground bus bar will be done at a convenient time for the owner as to minimize interruption to production in the shops of D200.
2. All work will be measured against the accepted standard of CSA B167-08, ASME, ANSI and the CEC (latest editions).
3. Commissioning will include but will not be limited to the following:
 - Weight test: 125% rated crane load or other standard set out by CSA B167-08, ASME, and ANSI (latest edition)
 - Limit function test(s) on hoist, trolley and bridge
 - Speed test(s), presets on hoist, trolley and bridge as per this specification and manufacturer's specification
 - Acceleration and deceleration tests on hoist, trolley and bridge
 - Full function test(s) on hoist, trolley and bridge full load and no load
 - Mechanical checklist
 - Electrical checklist
 - Local control function

-
- RF control function
 - Grounding system continuity and congruity
 - Safeties (E-stops, anti-collision, limits)
 - CSA certification
 - ASME/ANSI standards for overhead cranes
 - Planned maintenance routine for mechanical and electrical
4. A commissioning report shall be completed with the results of the above tests/checks and delivered to the owner upon completion of the contract.
 5. Three (3) operation and maintenance manuals shall be provided for each crane and its associated equipment in hard and soft copy.
 6. A list of **manufacturer's** part numbers is required for all equipment supplied and installed in this contract.
 7. Drawings, specifications and documentation to be provided to owner before work begins (for approval) and "as built" drawings, specifications and documentation to be provided to owner upon contract conclusion. All drawings, specs and designs submitted for approval / as built must have an engineer's stamp attached from the Province of Nova Scotia.
 8. CSA certification (or equivalent in section VIII) of equipment and control cabinets shall be done prior to delivery to buyer's location and at the expense of the supplier if not provided by the manufacturer.
 9. Delivery of all equipment to buyer's location must be included in the quote.
 10. Contractor shall submit a work schedule including start, completion and delivery to FMFCS, Project Manager.
 11. A crane operator can be provided by FMFCS for the purpose of commissioning the cranes if necessary.

VII. Training

A three (3) day training session (21 hours on site) shall be provided with the purchase of this machinery. This training session will cover the full use, operation and maintenance of the new cranes, radio (RF) remote belly boxes, cabin controls and isolation switches. The lesson should include practical and interactive examples. There will be 30-40 trainees total in the training session. The trainer shall be knowledgeable in all aspects (operation & maintenance) of the crane equipment being installed. Persons trained shall be documented and a list shall be presented to the owner upon completion. Training schedule shall be agreed upon between supplier and the owner.

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Buyer ID - Id de l'acheteur
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ANNEX "B"

BASIS OF PAYMENT

Date of award to March 31, 2015

Column A Work Description	Column B Unit of Measurement	Column C Estimated Quantity	Column D Price per unit	Column E Extended Price Column C*Column D
Supply,Delivery and installation of Two (2)- ten ton capacity TRDG (top running double girder) cranes (trolley & hoist) in accordance with Annex-A Requirement	each	2	\$ _____	\$ _____
Supply, Delivery and installation of one (1)- fifteen ton capacity TRDG (top running double girder) cranes (trolley & hoist) in accordance with Annex-A Requirement	each	1	\$ _____	\$ _____
Total				\$ _____ HST extra

Total= \$ _____ HST extra

The total will be the amount that will be considered during evaluation of all bids tendered

ANNEX "C" ELECTRICAL CERTIFICATION REQUIREMENT

Electrical equipment that is not certified by one of the agencies below can only be accepted if the equipment is "field" inspected under the Special Inspection Programs and labelled (complete with verification documentation). This inspection must take place before equipment delivery.

Equipment shall be certified by an acceptable Electrical Certification Organization. The following Certification Organizations are acceptable. The electrical power and control panels as well as power and control components must bear a label from one of these organizations in order to be recognized as approved.
IMPORTANT: Labels from all Organizations below (with the exception of CSA and ULC), **must be accompanied by a small "c" at the eight o'clock position** or Canadian Standard number to indicate the product has been certified to the Canadian Standard.

Identify with a check mark "√" or "X" which organization shall be used:

	Compliant Yes/No
a.) Canadian Standards Association (CSA),	_____
b.) QPS Evaluation Services	_____
c.) Intertek Testing Services,	_____
d.) Underwriters Laboratories of Canada (ULC),	_____
e.) Underwriters Laboratories Inc. (UL),	_____
f.) Met Laboratories Inc. (MET),	_____
g.) TUV Rheinland of North America,	_____
h.) Quality Auditing Institute (QAI),	_____
i.) TUV America Inc.	_____
J.) Nemko Canada Inc.	_____
k.) Curtis-Straus LLC	_____
l.) Labtest Certification	_____
m.) NSF International	_____
	Compliant Yes/No
n.) Omni-Test Laboratories	_____

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o.) FM Approvals _____

p.) Entella Canada _____

1.2) Electrical equipment that is not certified by one of the above agencies can only be accepted if the equipment is "field" inspected under the Special Inspection Programs and labeled (complete with verification documentation). This inspection must take place before equipment delivery. Identify with a check mark "√" or "X" which organization shall be used:

**Compliant
Yes/No**

a.) Canadian Standards Association (CSA) _____

b.) QPS Evaluation Services _____

c.) Electrical Safety Authority (ESA) _____

d.) Quality Auditing Services (QAI) _____

e.) Intertek Testing Services _____

f.) MET Laboratories Inc. (MET) _____

g.) TUV America Inc. _____

h.) Underwriters Laboratories of Canada (ULC) _____

ANNEX "D"

INSURANCE REQUIREMENTS

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 \$2,000,000 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. 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.

- m. Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.
- n. .Litigation Rights: Pursuant to subsection 5(d) of the [Department of Justice Act](#), S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

For the province of Quebec, send to:

*Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8*

For other provinces and territories, send to:

*Senior General Counsel,
Civil Litigation Section,
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8*

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

Automobile Liability Insurance

- 1.The Contractor must obtain Automobile 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 \$2,000,000 per accident or occurrence.
- 2.The policy must include the following:
 - a.Third Party Liability - \$2,000,000 Minimum Limit per Accident or Occurrence
 - b.Accident Benefits - all jurisdictional statutes
 - c.Uninsured Motorist Protection
 - d.Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

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ANNEX "E"
Integrity Provisions - Associated Information

Bidder's List of Directors below: Please provide a list of names of all individuals who are currently Directors in accordance with **PART 5-CERTIFICATION**.

Directors: (Please print clearly)

NAME	NAME	NAME	NAME

Attach additional names on a separate sheet if required.