



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Réception des soumissions - TPSGC / Bid

Receiving - PWGSC

Voir dans le document/

See herein

NA

Quebec

NA

**INVITATION TO TENDER**

**APPEL D'OFFRES**

**Tender To: Public Works and Government Services  
Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Soumission aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici et sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

**Vendor/Firm Name and Address**

Raison sociale et adresse du  
fournisseur/de l'entrepreneur

**Issuing Office - Bureau de distribution**

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

<b>Title - Sujet</b> Turning Gear Parts- DesGroseillers	
<b>Solicitation No. - N° de l'invitation</b> F3065-210183/B	<b>Date</b> 2022-02-08
<b>Client Reference No. - N° de référence du client</b> F3065-210183	<b>GETS Ref. No. - N° de réf. de SEAG</b> PW-\$QCV-007-18287
<b>File No. - N° de dossier</b> QCV-1-44088 (007)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> Eastern Standard Time EST <b>on - le 2022-03-01</b> Heure Normale du l'Est HNE	
<b>F.O.B. - F.A.B.</b>	
<b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Simoneau, Steve	<b>Buyer Id - Id de l'acheteur</b> qcv007
<b>Telephone No. - N° de téléphone</b> (418) 564-9517 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> MINISTERE DES PECHES ET DES OCEANS NGCC DES GROSEILLERS 101 BOUL.CHAMPLAIN R.C. QUEBEC Québec G1K7Y7 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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This bid solicitation cancels and supersedes previous bid solicitation number F3065-210183/A dated 2021-10-05 with a closing of solicitation on 2021-11-04 at 14h00. A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

This requirement does not include a security requirement.

### **1.2 Requirement**

The requirement is detailed under Article 6.2 of the resulting contract clauses.

### **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.

### **1.4 epost Connect service**

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information."

### **1.5 COVID-19 vaccination requirement**

This requirement is subject to the COVID-19 Vaccination Policy for Supplier Personnel. Failure to complete and provide the COVID-19 Vaccination Requirement Certification as part of the bid will render the bid non-responsive.

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## **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) (<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](#) (2020-05-28) 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 in the bid solicitation.

#### **2.2.1 Epost Connect**

Bidders choosing to submit using epost Connect must send an email requesting to open an epost Connect conversation to the following address:

[TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca)

Note: **Bids will not be accepted if emailed directly to this email address.** This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/active>), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

[Steps to follow for the Bid Submission to Bid Receiving Unit \(BRU\) using epost Connect](https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect) (<https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect>)

#### **2.2.2 Facsimile**

Facsimile number: 418-566-6168.

**2.2.3** Bids transmitted by hardcopy to PWGSC will not be accepted.

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than 7 (seven) 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

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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.

## 2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
  - Office of the Procurement Ombudsman (OPO)
  - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid (if applicable)  
Section II: Financial Bid  
Section III: Certifications

Bids transmitted by hardcopy will not be accepted.

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

#### **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.

##### **3.1.1 Electronic Payment of Invoices – Bid**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex 1 to part 3 Electronic Payment Instruments, to identify which ones are accepted.

If Annex 1 Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

##### **3.1.2 Exchange Rate Fluctuation**

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

##### **3.1.3 SACC Manual Clauses**

#### **Section III: Certifications**

Bidders must submit the certifications and additional information required under Part 5.

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## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

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

#### **4.1.1 Financial Evaluation**

1. Bidders must submit firm prices, customs duties and excise taxes included, and Applicable Taxes excluded.
2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
3. Bidders must provide prices Delivered Duty Paid (DDP) **Quebec, QC**, Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on a DDP basis.

### **4.2 Basis of Selection**

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

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## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

Bidders must provide the required certifications and additional information to be awarded a contract.

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, 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 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 will render the bid non-responsive or constitute a default under the Contract.

### **5.1 Certifications Required with the Bid**

Bidders must submit the following duly completed certifications as part of their bid.

#### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

#### **5.1.2 COVID-19 vaccination requirement certification**

In accordance with the COVID-19 Vaccination Policy for Supplier Personnel, all Bidders must provide with their bid, the COVID-19 Vaccination Requirement Certification attached to this bid solicitation, to be given further consideration in this procurement process. This Certification incorporated into the bid solicitation on its closing date is incorporated into, and forms a binding part of any resulting Contract.

### **5.2 Certifications Precedent to Contract Award and Additional Information**

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information 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 provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

#### **5.2.1 Integrity Provisions – Required Documentation**

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real property agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

#### **5.2.2 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" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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.



## **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**

There is no security requirement applicable to the Contract.

### **6.2 Requirement**

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

### **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) (<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](#) (2021-12-02), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

#### **6.3.2 Supplemental General Conditions**

##### **6.3.2.1 Compliance with on-site measures, standing orders, policies, and rules**

The Contractor must comply and ensure that its employees and subcontractors comply with all security measures, standing orders, policies or other rules in force at the site where the Work is performed.

##### **6.3.2.2 Suspension of the work**

1. The Contracting Authority may at any time, by written notice, order the Contractor to suspend or stop the Work or part of the Work under the Contract for a period of up to 180 days. The Contractor must immediately comply with any such order in a way that minimizes the cost of doing so. While such an order is in effect, the Contractor must not remove any part of the Work from any premises without first obtaining the written consent of the Contracting Authority. Within these 180 days, the Contracting Authority must either cancel the order or terminate the Contract, in whole or in part, under section(s) "Default by the Contractor" or "Termination for convenience" of general conditions 2010A.
2. When an order is made under subsection 1, unless the Contracting Authority terminates the Contract by reason of default by the Contractor or the Contractor abandons the Contract, the Contractor will be entitled to be paid its additional costs incurred as a result of the suspension plus a fair and reasonable profit.
3. When an order made under subsection 1 is cancelled, the Contractor must resume work in accordance with the Contract as soon as practicable. If the suspension has affected the Contractor's ability to meet any delivery date under the Contract, the date for performing the part of the Work affected by the suspension will be extended for a period equal to the period of suspension plus a period, if any, that in the opinion of the Contracting Authority, following consultation with the Contractor, is necessary for the Contractor to resume the Work. Any equitable adjustments will be made as necessary to any affected conditions of the Contract.

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## **6.4 Term of Contract**

### **6.4.1 Period of the Contract**

The period of the Contract is from date of Contract to April 1<sup>st</sup> 2023 inclusive.

### **6.4.2 Delivery Date**

All the deliverables and installation must be received/done within 40 weeks after the contract award.

### **6.4.3 Delivery Points**

Delivery of the requirement will be made to delivery point specified at Annex "A" of the Contract.

## **6.5 Authorities**

### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Steve Simoneau  
Marine Procurement Team Leader  
Public Works and Government Services Canada  
Québec area, Marine division  
1550, avenue D'Estimauville, Québec, (Québec) G1J 0C4,  
Quebec, Canada  
[steve.simoneau@tpsgc-pwgsc.gc.ca](mailto:steve.simoneau@tpsgc-pwgsc.gc.ca)  
Phone: (418) 564-9517  
Fax: (418) 648-2209

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 completed at contract award*):

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
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.

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### **6.5.3 Contractor's Representative**

*To be completed at contract award*

## **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 firm unit prices as specified in Annex B "Basis of Payment" of the contract for a total cost of \$\_\_\_\_\_ (*to be completed 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.

### **6.6.2 Electronic Payment of Invoices – Contract**

*(To be completed at contract award)*

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

## **6.7 Invoicing Instructions**

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.

Invoices must be distributed as follows:

- a) The invoice must be sent electronically to the client's e-mail address:  
[DFO.invoicing-facturation.MPO@DFO-MPO.gc.ca](mailto:DFO.invoicing-facturation.MPO@DFO-MPO.gc.ca)  
Contact : *To be completed at contract award*  
Reference number: F3065210183  
CC: the contracting authority: [steve.simoneau@tpsgc-pwgsc.gc.ca](mailto:steve.simoneau@tpsgc-pwgsc.gc.ca)

## **6.8 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

## **6.9 Applicable Laws**

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

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#### **6.10 Priority of Documents**

*(To be completed at contract award)*

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](#) (2021-12-05), General Conditions - Goods (Medium Complexity)
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment
- (e) the Contractor's bid dated \_\_\_\_\_ *(to be completed at contract award)*

#### **6.11 SACC Manual Clauses**

[G1005C](#) (2016-01-28), Insurance - No Specific Requirement

#### **6.12 Dispute Resolution**

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

## ANNEX A – STATEMENT OF REQUIREMENT

### Supply of Turning Gear Parts

#### 1.0 Identification

- 1.1 The purpose of this statement of work is to provide the information necessary to procure replacement parts for the CCGS Des Groseilliers propeller shaft turning gears.
- 1.2 The CCG is seeking to replace the cast iron gear wheels and matching worm gear which are principal parts of the vessel's port and starboard propeller shaft turning gear on the CCGS Des Groseilliers.

#### 2.0 References

##### 2.1 Equipment Data

- 2.1.1 The following shafting data is provided for context:

Description	Value
Propeller diameter	4 m
Propeller shaft mass	14,000 kg
Shaft diameter	630 mm
Shaft mass	37,000 kg
Approximate rotational speed of propeller shaft when turning gear is engaged	5-6 RPM approximately

- 2.1.2 The following drawings are provided for guidance:

Document Number	Title
AW302862	Gear wheel
AW201810B	Turning gear arrangement
AW201812B	Turning gear details
AW201813A	Turning gear details
4005E1031BG	Outline, propulsion motors
68-2600-1	Arrangement of shafting and details

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**2.1.3** The following Standards and Regulations apply to work carried out in this specification:

<b>Organization</b>	<b>Title</b>	<b>Provided</b>
ABS	Rules for Materials and Welding – January 2021 – Part 2	No
ANSI/AGMA 2111-A98	Cylindrical wormgearing tolerance and inspection methods (Metric)	No
ANSI B4.2 – 1978 (R2020)	Preferred Metric Limits and Fits	No
ASTM A29: 2016	Standard specification for requirements for steel bars, carbon alloy, hot wrought.	No
ASTM E8: 2021	Standard test methods for tension testing of metallic materials	No
ASTM E10: 2018	Standard test method for Brinell hardness of metallic materials	No
ASTM E18: 2020	Standard test method for Rockwell hardness of metallic materials	No
CAN/CGSB 48-9712/ISO 9712: 2012	Non-destructive testing – Qualification and certification of NDT Personnel	No
CCG - CT-014-000-ES-TD-001	Computer Aided Design (CAD) Using AutoCAD standard	Yes
EN 10204: 2004	Metallic products: Types of inspection documents	No
ISO 2768-1:1989	General tolerances — Part 1: Tolerances for linear and angular dimensions without individual tolerance indications	No
ISO 2768-2:1989	General tolerances — Part 2: Geometrical tolerances for features without individual tolerance indications	No
ISO 945-1: 2019	Microstructure of cast irons – Part 1: Graphite classification by visual analysis	No
ISO 6892-1: 2019	Metallic materials – Tensile testing – Part 1: Method of test at room temperature	No
ISO 6506-1: 2014	Metallic materials – Brinell hardness test – Part 1: Test method	No
ISO 6508-1: 2016	Metallic materials – Rockwell hardness test – Part 1: Test method	No
SOR/90-264 – 2022	Marine Machinery Regulations	No

### **3.0 Statement of Work**

#### **3.1 Production planning and coordination**

**3.1.1** The Contractor is informed that CCGS DesGroseilliers is now under the Delegated Statutory Inspection Program and that the Canadian Coast Guard has retained the American Bureau of Shipping (ABS) as a Transport Canada Recognized Organization (RO).

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- 3.1.2** The Contractor must contact, coordinate, schedule, and be completely prepared for all regulatory inspections and surveys by the attending ABS inspector as indicated by individual sections of this statement of work.
- 3.1.3** The Contractor must produce and maintain a production plan indicating production, delivery, assembly, and inspection milestones for the supply of turning gear parts. The Contractor must update the production plan should there be any changes to the schedule.
- 3.1.4** The Contractor must track and control the quality of contracted work during this project. To this end, the Contractor must create and maintain an enumerated list of all inspection test and trial points. This list can be referred to as the Contractor's Inspection Testing Plan (ITP). The plan should include all elements that the contractor deems necessary to assure the quality of the work, but must also include items outlined in section 4 of this statement of work.
- 3.1.5** The Contractor must submit the production plan and ITP to the CCG TA for approval prior to beginning the work. The ITP must be updated with current test results and electronically transmitted in the 48 hours following the completion of hold points for the CCG Technical Authority (TA) review.
- 3.1.6** The CCG reserves the right to audit the Contractor's production plan and ITP throughout the period of the contract to ensure that they are being followed.
- 3.1.7** The Contractor must schedule and ensure that all pre-determined hold points as determined by the Inspection requirements described in this section of the statement of work and the Contractor's ITP, are witnessed by the CCG TA and when applicable the attending ABS inspector for the Contracted work item.
- 3.1.8** The CCG TA and attending ABS surveyor must be permitted to witness all hold points. Should the Contractor's facilities be within Québec, the Contractor must give the CCG TA and attending ABS inspector 48 hours' notice prior to any hold point. For locations outside of Québec, the Contractor must give 5 business days' notice. Where the CCG TA is unable to attend the contractor's facilities, the Contractor must submit to the CCG TA written reports, including photographs, detailing the activities carried out during these hold points, results, and actions taken, for approval before proceeding with the remainder of the work.
- 3.1.9** The Contractor must prepare fabrication drawings and general assembly drawings. The CCG will use the fabrication drawings to order future parts as required. The CCG will give the general assembly drawings to the third party contractor who will install the parts. These drawings must be prepared according to the CCG *Computer Aided Design (CAD) Using AutoCAD* standard CT-014-000-ES-TD-001.

### **3.2** Scope of supply:

- 3.2.1** The Contractor must fabricate the parts in the quantities identified in the column Quantity Required of table 1 – Turning Gear Parts:

Table 1 – Turning Gear Parts

Description	Drawing Reference for Dimensions and Tolerances	Materials Requirements	Quantity Required
Cast iron gear wheels	AW302862	Ductile Cast Iron – Required mechanical properties are identified in Table 2 – Mechanical Properties.	2 complete gear wheels
Worm	AW201812B – Item 73	AISI 8620, case carburized and ground.	2
Worm wheel	AW201812B – item 58	Cast Bronze with Brinell Hardness 140 HBW 10/500/30	1
Nut	AW201810B – Item 56	Steel, 3 ¼"- 8 UN-28	1
Oil retaining ring	AW201813A – items 178 and 179	Carbon Steel	1
Vertical worm shaft	AW201812B – item 53	AISI 1035	1
Key	AW201810B – item 74 – Dimensioned to secure worm (item 73) to shaft (item 53)	AISI 1045	1
Nut	AW201810B – item 76	Carbon steel, 4 4/14"-8, UN-28	1
Guide	AW201813A – item 84	Cast steel	1
Nut	AW201810B – item 138	Carbon steel, 2"-8, UN-28	1
Distance bush	AW201813A – item 141	AISI 1035	1
Bearing top half	Refer to drawing AW201813A – item 147	Cast Bronze	2
Bearing bottom half	Refer to drawing AW201813A – item 146	Cast Bronze	2
Shaft nut	AW201813A – item 154	AISI 1035	1
Worm	AW201813A – item 156	AISI 8620, case carburized and ground	1
Horizontal worm shaft	AW201812B – item 158	AISI 1045	1
Key	AW201810B – item 157 – Dimensioned to secure worm (item 156) to shaft (item 158)	AISI 1045	1
Oil retaining ring	AW201813A – item 163	Cast bronze	1
Connecting plate	AW201813A – item 87	ASTM A285 Grade A	2
Pin	AW201813A – item 88	AISI 1035	2
Connecting rod	AW201813A – item 96	AISI 1035	1
Gear	AW201813A – item 97	AISI 1035	1
Bush	AW201813A – item 113	Cast Bronze	1
Gear	AW201813A – item 100	AISI 1045	1
Nut	AW201813A – item 100	AISI 1035	1

### 3.3 Tolerances

- 3.3.1** The Contractor must fabricate the parts with the surface finishes and dimensions indicated on the drawings listed in the column *Drawing Reference for Dimensions and Tolerances* of table 1.



- 3.3.2** The Contractor must machine the cast iron gear wheels illustrated on drawing AW302862 and worms illustrated on AW201812B – Item 73, as matching sets with tolerances as per ANSI/AGMA 2111-A98 Grade 5 element tolerances for the respective mean diameters and module.
- 3.3.3** The Contractor must machine the cast bronze wheel illustrated on AW201812B – item 58, and the worm illustrated pm AW201813A – item 156, as matching sets with tolerances as per ANSI/AGMA 2111-A98 Grade 5 element tolerances for the appropriate mean diameters and module.
- 3.3.4** For all parts, where linear, angular, or radial dimensions are indicated on the drawings with no associated tolerance and where the tolerance has not been addressed by ANSI/AGMA 2111-A98, the required tolerance following machining is ISO 2768-fH.
- 3.3.5** All worm gear bore diameter's and matching shaft outside diameters must be machined for an H7/h6 tolerance according to ANSI B4.2 preferred hole basis metric clearance fits.

#### 3.4 Materials

- 3.4.1** The Contractor must fabricate the parts from materials identified in the column Materials Requirements of table 1.
- 3.4.2** With the exception of the cast iron gear wheels illustrated on drawing AW302862, the Contractor must submit to the CCG TA EN 10204 Type 3.1 material test reports for all materials used in fabrication.
- 3.4.3** The following requirements specific to cast iron gear wheels – drawing AW302862:
- 3.4.3.1** The cast iron gear wheels must have the minimum mechanical properties identified in table 2 – mechanical properties.
- 3.4.3.2** The Contractor must ensure that the chemical composition of the cast iron used to fabricate the cast iron gear wheels is sufficient to yield the required mechanical properties and metallographic structures. Chemical composition is therefore left to the foundry's discretion provided that the requirements in table 2 are met.
- 3.4.3.3** The Contractor must submit to the CCG TA reports indicating the chemical composition of the cast iron used to fabricate the cast iron gear wheels. Chemical analyses and test coupons must be provided from each ladle poured.

Table 2 - Mechanical Properties

Description	Value
Tensile strength (Rm)	510 Mpa (minimum)
0.2% proof strength (Rp0.2)	340 Mpa (minimum)
Elongation after fracture (A)	7% (minimum)
Brinell hardness (HBW)	170-230
Graphite nodularity (ISO 945-1)	90% Type VI, remaining 10% combination of Type V and Type IV

### 3.5 Marking and testing

#### 3.5.1 General requirements:

**3.5.1.1** The Contractor must tag all parts according to their respective item number and drawing reference indicated in table 1.

**3.5.1.2** The Contractor must permanently mark the cast iron gear wheels - drawing AW302862, cast bronze worm wheel AW201812B, worms AW201812B – Item 73 and AW201813A – item 156 according to the requirements of Marine Machinery Regulations (SOR/90-264) - Material Testing and Marking (sections 7-11 inclusive) and Component Inspection and Marking (sections 16-18 inclusive).

**3.5.1.3** For all NDE inspections required in this statement of work, all NDE inspectors must be certified level 2 or 3 according to CSA W178.2 and CAN/CGSB-48.9712.

**3.5.1.4** The Contractor must submit to the CCG TA written reports detailing all NDE carried out.

#### 3.5.2 The following testing requirements specific to worms AW201812B – Item 73 and AW201813A – item 156:

**3.5.2.1** The hardness of the worm gear material is to be measured following final heat treatment, on either the finished part or blank on the gear rim according to either ISO 6058-1 or ASTM E18 Rockwell Hardness test methods.

**3.5.2.2** The Contractor must perform magnetic particle (MT), non-destructive examination (NDE) on the finished worms. Cracks, bursts, seams, or laps are not permissible and will be cause for rejection. The maximum size of permissible indication is 3.2 mm.

#### 3.5.3 The following testing requirements specific to the cast bronze worm wheel AW201812B – item 58:

**3.5.3.1** The Contractor must perform hardness testing on the cast bronze gear wheels according to ISO 6506-1, or ASTM E10 provided that the test uses the ISO recommended force-diameter indices for cast iron. Four (4) hardness indentations must be made on the side face of the gear tooth rim at mid-thickness; 2 on each side 180 degrees apart and 90 degrees apart from side to side.

#### 3.5.4 The following testing requirements specific to cast iron gear wheels – drawing AW302862

**3.5.4.1** In addition to the requirements of Marine Machinery Regulations (SOR/90-264) - Material Testing and Marking (sections 7-11 inclusive), the Contractor must test the material used to fabricate the cast iron gear wheels according to the requirements defined in ABS Rules for Materials and Welding – January 2021 – Part 2, chapter 3, section 10, clause 11 – Mechanical Tests. Testing must be carried out according to the following standards:

A) The Contractor must perform tensile testing of test bars machined from test coupons according to ISO 6892-1 or ASTM E8.

- B) The Contractor must perform hardness testing on the cast iron gear wheels according to ISO 6506-1, or ASTM E10 provided that the test uses the ISO recommended force-diameter indices for cast iron. Four (4) hardness indentations must be made on the side face of the gear tooth rim at mid-thickness; 2 on each side 180 degrees apart and 90 degrees apart from side to side.
- C) The Contractor must perform metallographic examination of bars sectioned from the test coupons must be conducted according to ISO 945-1 to determine graphite nodularity. All graphite must be nodular with at least 90% Type VI and the remainder any combination of Type V and Type IV.
- 3.5.4.2** Heat treatment of the cast iron gear wheels is acceptable where it is necessary to achieve the required mechanical and metallographic requirements identified in table 2 in the main castings. Where heat treatment is used the Contractor must ensure that:
- A) The procedure is submitted for to the CCG TA and ABS for approval prior to casting.
- B) The CCG TA and attending ABS inspector are permitted to witness heat treatment to ensure that the procedures are followed.
- C) Test coupons are subjected to heat treatment with their respective castings prior to separation and machining into test bars.
- 3.5.4.3** The Contractor must visually inspect the castings on both sides, and on all surfaces. No peening, hammering or other treatment that hides defects is permitted. No cracks or defects that would render the castings unsound are permitted. Castings must therefore be complete with smooth surfaces that are free from metallic projections, cavities, discontinuities, surface defects or any other flaw that could act as stress raisers and initiate cracks. The Contractor must prepare and submit a report detailing the visual inspection to the CCG TA.
- 3.5.4.4** The Contractor must measure the following controlling dimensions; run out, pitch, accumulative pitch, profile, form, and all variations must be made on all teeth, and on both right and left flanks.
- 3.5.4.5** The Contractor must prepare a dimensional inspection report that graphically displays the calculated controlling dimensions and compares them with the measured values for each cast iron gear wheel and worm gear pair.
- 3.5.4.6** Measuring methods and equipment are left to the discretion of the Contractor. All equipment must be calibrated according to a recognized international standard. The Contractor must provide recent calibration certificates to the CCG TA.
- 3.5.4.7** Repairs of the cast iron gear wheels by welding are not permitted. Non serious surface defects can be removed by local grinding upon the CCG TA approval.

**3.5.4.8** Where subsurface defects that render the cast iron gear wheel castings defective are found during machining, the castings will be rejected and must be recast at the Contractor's expense.

**3.5.4.9** Where mechanical tests fail, the castings will be rejected and must be recast at the Contractor's expense.

**3.5.4.10** MT inspection must be carried out on:

- A) All machined, ground, polished, drilled, or reamed surfaces.
- B) At all filets and abrupt changes of section.
- C) Where surplus metal has been removed.
- D) Where risers, runners, gates, seams, or flashing have been removed.
- E) Where excess sand has been removed by mechanical means.
- F) At all finished bolt holes.
- G) On all gear tooth contact faces and roots.
- H) On any surface defect found during the visual inspection prior to and following repairs.
- I) At any location where a chaplet, insert, or chill was used in the casting.

**3.5.4.11** Volumetric NDE is not required unless there is any reason to suspect the soundness of the casting during the visual or MT inspections. In this case, the Contractor must either reject and remake the casting, or conduct radiographic (RT) NDE of the casting; the results of RT must be submitted to the CCG TA for review. However, should the CCG review of the RT data determine that the casting is defective, it will be rejected not withstanding any previous certification and recast at the contractor's expense.

### **3.6** Packaging and transportation

**3.6.1** The Contractor must deliver the parts Delivered Duty Paid (DDP) to 101 Boulevard Champlain, Québec, QC, G1K 7Y7, Incoterms 2000 for shipments from a commercial contractor.

**3.6.2** The parts must be delivered within 40 weeks following the award of contract.

**3.6.3** Prior to transport, the Contractor must package each cast iron gear wheel half individually in wooden crates with dimensions no greater than 8' x 4' x 2'.

**3.6.4** The Contract must apply a temporary protective coating to all parts. The coating must be suitable for transportation in a marine environment, and durable for 2 years.

- 3.6.5** The Contractor must photograph the parts in detail prior to application of temporary protective coating and prior to placing them in their transportation crates; this includes close up photographs from each side of each cast iron part. These photographs must be transmitted to the CCG TA within the following 24 hours.

#### **4.0** Proof of Performance

##### **4.1** Inspections and certification

- 4.1.1** The Contractor must coordinate the inspection and testing of all materials used to fabricate the parts with the CCG TA and attending ABS inspector according to the requirements of this statement of work.
- 4.1.2** The Contractor must coordinate the final inspection of the finished machined parts with the CCG TA and attending ABS inspector prior to shipment to the CCG.
- 4.1.3** The Contractor must prepare a Component Inspection Certificate for the cast iron gear wheels - drawing AW302862, cast bronze worm wheels AW201812B – item 58, worms AW201812B – Item 73 and AW201813A – item 156 according to the requirements of Machinery Regulations (SOR/90-264) Component Inspection and Marking (sections 16-18 inclusive).
- 4.1.4** The Contractor must ensure that all visual and dimensional inspections, and all NDE are completed according to the requirements of this statement of work.

##### **4.2** Documentation

- 4.2.1** The Contractor must submit the following documentation in PDF format to the CCG TA for review within the timelines described:
- 4.2.1.1** Contractor's Production Plan – As per section 3.1.3 of this statement of work. The Production Plan must be submitted within the 5 business days following award of contract.
- 4.2.1.2** Contractor's Inspection Testing Plan (ITP) – As per section 3.1.4 of this statement of work. The ITP must be submitted within the 5 business days following award of contract.
- 4.2.1.3** Fabrication and General Assembly drawings – As per section 3.1.9 of this statement of work. Fabrication drawings must be submitted prior to fabrication of the parts identified in table 1, the General Assembly drawings must be submitted prior to shipment of the parts.
- 4.2.1.4** EN 10204 Type 3.1 Material test reports for steel and bronze used to fabricate parts – As per section 3.4.2 of this statement of work. Material test reports must be submitted prior to fabrication of the parts identified in table 1.

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- 4.2.1.5** Cast iron gear wheel chemical analysis reports – As per section 3.4.3.3 of this statement of work. The reports must be submitted within the 5 business days following the analysis.
- 4.2.1.6** Non Destructive Examination (NDE) reports - As per section 3.5.1.4 of this statement of work. The reports must detail the results of all NDE carried out, including the procedure used, equipment used, the inspector's name and certification. NDE reports must be submitted within the 5 business days following completion of NDE.
- 4.2.1.7** Hardness test reports for finished worms – As per section 3.5.2.1 of this statement of work. The report must containing the information as outlined in chapter 9 of ISO 6508-1. The reports must be submitted prior to shipment of the parts.
- 4.2.1.8** Hardness test report for finished cast bronze gear wheel – As per section 3.5.3.1 of this statement of work. The report must containing the information as outlined in chapter 9 of ISO 6508-1. The reports must be submitted prior to shipment of the parts.
- 4.2.1.9** Tensile test report of cast iron test bars – As per section 3.5.4.1 of this statement of work. The reports must detail results of UTS, proof, and % elongation and contain the information outlined in chapter 22 of ISO 6892-1. The reports must be submitted prior to shipment of the parts.
- 4.2.1.10** Hardness test report for cast iron gear wheel – As per section 3.5.4.1 of this statement of work. The report must containing the information as outlined in chapter 9 of ISO 6506-1. The reports must be submitted prior to shipment of the parts.
- 4.2.1.11** Metallographic examination report – As per section 3.5.4.1 of this statement of work prior. The report must containing the information as outlined in chapter 9 of ISO 945-1. The reports must be submitted prior to shipment of the parts.
- 4.2.1.12** Heat treatment procedures – As per section 3.5.4.2 of this statement of work. The procedures must be submitted prior to heat treatment.
- 4.2.1.13** Visual inspection report – As per section 3.5.4.3 of this statement of work. The report must be submitted within the 5 business days following the completion of the inspection.
- 4.2.1.14** Dimensional inspection report – As per section 3.5.4.5 of this statement of work. The report must be submitted within the 5 business days following the completion of the inspection.
- 4.2.1.15** Measurement equipment calibration certificates (where applicable) – As per section 3.5.4.6 of this statement of work. Certificates must be submitted prior to dimensional measurements.
- 4.2.1.16** Photographs of parts prior to shipment – As per section 3.6.5 of this statement of work. Photographs must be submitted prior to shipment of parts.

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## **APPENDIX 1 OF ANNEX A – TECHNICAL DOCUMENTATION**

Please see technical documentation attached with this solicitation

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**ANNEX B - BASIS OF PAYMENT**

<b>PRICE PER ITEM SHEET</b>		
<b>Item</b>	<b>Description – SECTION A : KNOWN WORK</b>	<b>Firm price</b>
<b>3.1.9</b>	Production and fabrication and general assembly drawings	_____ \$
<b>3.2.1</b>	Cast Iron Gear Wheels – AW302862	_____ \$
<b>3.2.1</b>	Worm – AW201812B – Item 73	_____ \$
<b>3.2.1</b>	Worm Wheel - AW201812B – item 58	_____ \$
<b>3.2.1</b>	Worm - AW201813A – item 156	_____ \$
<b>3.2.1</b>	All other remaining parts identified in Table 1 – Turning gear parts	_____ \$
<b>3.6.1</b>	DDP Delivery (101 Champlain boulevard, Quebec city, QC, G1K 7Y7)	_____ \$
	<b>A) KNOWN WORK – TOTAL FIRM PRICE (applicable taxes not included)</b>	_____ \$



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## **ANNEX 1 to PART 3 OF THE BID SOLICITATION - ELECTRONIC PAYMENT INSTRUMENTS**

### **ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts any of the following Electronic Payment Instrument(s):

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)

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**ANNEX 1 OF PART 5 OF THE BID SOLICITATION - COVID-19 Vaccination Requirement  
Certification Form**

**Certification**

I, \_\_\_\_\_ (*first and last name*), as the representative of  
\_\_\_\_\_ (*name of business*) pursuant to Contract  
\_\_\_\_\_ (*contract number*), warrant and certify that all personnel that  
\_\_\_\_\_ (*name of business*) will provide on this Contract who access  
federal government workplaces where they may come into contact with public servants will be:

- (a) fully vaccinated against COVID-19;
- (b) for personnel that are unable to be vaccinated due to a certified medical contraindication, religion or other prohibited grounds of discrimination under the *Canadian Human Rights Act*, subject to accommodation and mitigation measures that have been presented to and approved by Canada; or
- (c) partially vaccinated against COVID-19 for a period of up to 10 weeks from the date of their first dose and subject to temporary measures that have been presented to and approved by Canada, immediately after which period the personnel will meet the conditions of (a) or (b) or will no longer access federal government workplaces where they may come into contact with public servants under this Contract;

until such time that Canada indicates that the vaccination requirements of the Government of Canada's COVID-19 Vaccination Policy for Supplier Personnel are no longer in effect.

I certify that all personnel provided by \_\_\_\_\_ (*name of business*) have been notified of the vaccination requirements of the Government of Canada's COVID-19 Vaccination Policy for Supplier Personnel, and that the \_\_\_\_\_ (*name of business*) has certified to their compliance with this requirement.

I certify that the information provided is true as of the date indicated below and will continue to be true for the duration of the Contract. I understand that the certifications provided to Canada are subject to verification at all times. I also understand that Canada will declare a contractor in default if a certification is found to be untrue, whether made knowingly or unknowingly, during the contract period. Canada reserves the right to ask for additional information to verify the certifications. Failure to comply with any request or requirement imposed by Canada will constitute a default under the Contract.

This certification supersedes any previous certification submitted to the Government of Canada regarding compliance with the vaccination requirements of the Government of Canada's COVID-19 Vaccination Policy for Supplier Personnel under the aforementioned contract.

Signature: \_\_\_\_\_  
Date: \_\_\_\_\_

Optional

For data purposes only, initial below if your business already has its own vaccination policy or requirements for employees in place. Initialing below **is not** a substitute for completing the mandatory certification above.

Initials: \_\_\_\_\_

Information you provide on this Certification Form and in accordance with the Government of Canada's COVID-19 Vaccination Policy for Supplier Personnel will be protected, used, stored and disclosed in accordance with the Privacy Act. Please note that you have a right to access and correct any information

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on your file, and you have a right to file a complaint with the Office of the Privacy Commissioner regarding the handling of your personal information. These rights also apply to all individuals who are deemed to be personnel for the purpose for the Contract and who require access to federal government workplaces where they may come into contact with public servants.