



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

**REQUEST FOR PROPOSAL**  
**DEMANDE DE PROPOSITION**

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

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

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

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

**Comments - Commentaires**

<b>Title - Sujet</b> Paliers à rouleaux	
<b>Solicitation No. - N° de l'invitation</b> F3017-16N777/A	<b>Date</b> 2017-04-18
<b>Client Reference No. - N° de référence du client</b> F3017-16N777	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$QCL-037-17097	
<b>File No. - N° de dossier</b> QCL-6-39303 (037)	<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> <b>on - le 2017-05-23</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Heure Avancée de l'Est HAE
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Woods, Michael	<b>Buyer Id - Id de l'acheteur</b> qcl037
<b>Telephone No. - N° de téléphone</b> (418) 649-2715 ( )	<b>FAX No. - N° de FAX</b> (418) 648-2209
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> Pêches et Océans Canada-Garde Côtière NGCC DES GROSEILLIERS 101 BOUL.CHAMPLAIN QUEBEC Québec G1K7Y7 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

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

**Issuing Office - Bureau de distribution**

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

<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</b> <b>(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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## **PART 1 - GENERAL INFORMATION**

### **1.1 Requirement**

The requirement is detailed under Annex A - Requirement.

### **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 (2016-04-04) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

#### **2.1.1 SACC Manual Clauses**

SACC Manual Clause B1000T (2014-06-26), Condition of Material - Bid

### **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.

You can also submit your bid by facsimile at (1) 418-648-2209, 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 **(7) calendar days** before the bid closing date. Enquiries received after that time may not be answered.

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

### **2.4 Applicable Laws**

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

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

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## **2.5 Bidders' Conference (Not mandatory)**

A bidders' Conference chaired by the Contracting Authority will be convened on board vessel Des Groseilliers at 09:00 AM on May 2, 2017 in the Officers' Messroom. The vessel will be moored at section 17 of Québec Harbour, Québec City.

It is recommended that the Bidder or a representative of the Bidder attend the Bidders' Conference in order to review the Scope of the Work required and to receive additional information and clarifications. Bidders are to communicate with the Contracting Authority prior to the conference to confirm attendance. Bidders that do not attend are not precluded from submitting a bid. Bidders are to provide the Contracting Authority with the names of their representatives no later than two days prior to the conference. The Contracting Authority will have an attendance form which is to be signed by the Bidder's representative(s) in attendance. Bidders are advised that any clarifications or changes resulting from the Bidder's conference and/or the subsequent viewing of the vessel, shall be included as an amendment to the bid solicitation document.

## **2.6 Viewing - Vessel (Not mandatory)**

A site visit will be held immediately after the bidders' Conference.

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

### **3.1 Bid Preparation Instructions**

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

Section I: Technical Bid (1 hard copy)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

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

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

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

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

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

#### **Section I: Technical Bid**

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

#### **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**

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

##### **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 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria at bids opening:**

The bidder must clearly demonstrate with his proposal, he meets and complies with the requirement.

- a) The bidder must be OEM or be an authorized representative of the OEM for parts and services and provide a certification from the OEM.
- b) The product manufacturer (OEM) or his authorized representative must have already supplied similar roller bearings that have been installed on ships for a similar application (ice breaker). Provide the name of the vessel (s), the size and type of roller bearings provided and the year of supply. Provide references "
- c) Provide brand and model of proposed roller bearings as well as Technical data from the manufacturer (Specifications, sketches and printed descriptives).

##### **Mandatory Criteria before Contract award:**

See Part 5. Paragraph 5.2.1 and 5.2.2

#### **4.1.2 Financial Evaluation**

##### **Evaluation of Price - Bid**

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

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.

Notice: The resulting contract will be award in CDN dollars.

### **4.2 Basis of Selection**

A bid must comply with the 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 [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 with its bid the required documentation, as applicable, to be given further consideration in the procurement process.

#### **5.2 Mandatory Certifications Required Precedent to Contract Award**

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 Lloyds Type Approval Certificate**

Before contract award and within two working days of written notification by the Contracting Authority the successful Bidder must provide the Lloyds Type Approval Certificate.

##### **5.2.2 ISO 9001-2015 certification or a Quality Management System that takes into account the requirements of the standard.**

Before contract award and within two working days of written notification by the Contracting Authority the successful Bidder must provide the ISO 9001-2015 certification or a Quality Management System that takes into account the requirements of the standard.

##### **5.2.3 Code of Conduct and Certifications - Related documentation**

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

##### **5.2.4 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](#)"

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Limited Eligibility to Bid" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from Human Resources and Skills Development Canada (HRSDC) - Labour's website.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

Canada will also have the right to terminate the Contract for default if a Contractor, or any member of the Contractor if the Contractor is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list during the period of the Contract.

The Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, before contract award. If the Bidder is a Joint Venture, the Bidder must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification, for each member of the Joint Venture.

## 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 this Contract.

### 6.2 Requirement

The Contractor must provide the items detailed under 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) (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](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 6.4 Term of Contract

The contract period is from the date of the contract award until the end of the warranty period, inclusively.

#### 6.4.1 Delivery Date

All the deliverables must be received within 7 months of contract award.

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

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

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

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform

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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 Technical Authority

The Technical Authority for the Contract is:

(to be filled at contract award)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone : \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

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

### 6.5.3 Contractor's Representative

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone : \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

## 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 \$ \_\_\_\_\_ CDN (insert the amount at contract award). DDP at destination, customs duties are included and Applicable Taxes are extra.

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

### 6.6.2 Milestone Payments - Not subject to holdback

Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract if:

- a. an accurate and complete claim for payment using [PWGSC-TPSGC 1111](#), Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all the certificates appearing on form [PWGSC-TPSGC 1111](#) have been signed by the respective authorized representatives;
- c. all work associated with the milestone and as applicable any deliverable required has been completed and accepted by Canada.

### 6.6.3 Milestones Schedule

Milestone 1: 15% of contract value:

Supply and delivery of PDF dimensional drawings as per paragraph 3.4 of Annex A

Milestone 2: 60% of contract value:

Supply and delivery of two complete sets of roller bearings including all documentation required at paragraph 4.2 of Annex A.

Milestone 3: 25% of contract value:

Supply and delivery of a complete spare cartridge as described at paragraph 4.3.1, special tools if applicable as per paragraph 4.3.2 et spare parts if applicable as per 4.3.3 of Annex A.

### 6.7 SACC Manual Clauses

SACC Manual Clause C6000C (2011-05-16)  
SACC Manual Clause H4500C (2010-01-11)

Limitation of Price  
Lien – Section 427 of the Bank Act

### 6.8 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled “Invoice Submission” of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:

[DFOinvoicing-MPOfacturation@dfm-mpo.gc.ca](mailto:DFOinvoicing-MPOfacturation@dfm-mpo.gc.ca)

Important:

Write the name of the following person on invoice;

[REDACTED]

AND

- a) An electronic copy must be transmitted to the Contracting Authority identified under the section entitled “Authorities” of the Contract.

## 6.9 Certifications

### 6.9.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional 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 additional 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.

### 6.10 Applicable Laws

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

### 6.11 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 (2016-04-04), General Conditions – Goods (Medium Complexity);  
I Annex A, Requirement;
- (d) Annex B, Basis of payment;  
I the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: “, as clarified on \_\_\_\_\_” or “, as amended on \_\_\_\_\_” and insert date(s) of clarification(s) or amendment(s)*)

### 6.12 Defence Contract

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

### 6.13 Inspection and Acceptance

The Technical Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

### 6.14 Shipping Instructions – Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:  
Delivered Duty Paid (DDP) Incoterms 2000 for shipments from a commercial contractor.

### 6.15 Insurance – No Specific Requirement

SACC Manual clause G1005C (2016-01-28), Insurance – No Specific Requirement

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**ANNEX "A"**  
**REQUIREMENT**

**NGCC *DES GROSEILLIERS***

F3017-16IN777

Split roller bearings  
Propeller shafts

2016-11-17

## 1.0 SCOPE

- 1.1 Supply material and workmanship to fabricate and deliver at destination two (2) grease lubricated split pillow block bearings for the two (2) tailshafts of CCGC Des Groseilliers. The bearings must be approved by [Lloyds Register of Shipping \(LRS\)](#) for ice class 1 ice breaker ship and in accordance with the following technical description and drawings.

## 1.2 MAIN CHARACTERISTICS

The following are the main characteristics of the CCGS "DES GROSEILLIERS":

- Vessel name : CCGS « DES GROSEILLIERS »
- Type of vessel: Medium icebreaker
- Year of construction: 1982
- Draft: 7.40 m
- Gross tonnage: 6097.80
- Service speed: 12 knots
- Maximum speed: 16.5 knots
- Vessel class « Lloyds Class I Ice Breaker »

- 1.3 Dimensions of the propeller shaft to be supported by the new roller bearing:
- Weight 37 tons
  - Length 46' 1-13/16".
  - Diameter 26".

## 2.0 REFERENCES (Drawings / Standards / Regulations)

### 2.1 Drawings

- 2.1.1 24MA\_48643\_3 Michell aftmost bearing  
2.1.2 68-2600-1 Arrangement of Shafting  
2.1.3 68-H-101-T-Tabloid Deck profile  
2.1.4 49199REF48482 2 Michell main thrust block  
2.1.5 AW201941 Crane seal  
2.1.6 AW201945 Tail shaft with liner

### 2.2 Certifications

- 2.2.1 Type Approval certificate by Lloyds Register of Shipping (LRS).

### 2.3 Quality assurance

- 2.3.1 ISO 9001-2015

## 3.0 TECHNICAL DESCRIPTION

- 3.1 Supply two (2) grease lubricated split pillow block bearings for the two (2) tailshafts of CCGC Des Groseilliers. The bearings must be approved by [Lloyds Register of Shipping \(LRS\)](#) for ice class 1 ice breaker ship. They will allow free axial movement of the tailshaft, which is approximately 0.100" inch.
- 3.2 The shaft speed varies from 0 to 181 RPM in both directions. The bearings must be usable for shaft diameters from 24.138" to 24.142" inches (to be confirmed by supplier) in order to allow tailshafts to be interchangeable. Note, the approximate journal pressure for the existing Michel bearings is 120 lbs/sq. in.

3.3 The supplier must come on site to take shaft measurements of the three (3) tailshafts concerned in order to fabricate the bearings. He must verify the space available under and around the tailshaft, to make sure that we can install the bearings onboard the ship without any modification to the actual Michell bearing seatings.

3.4 Prior to fabrication, provide dimensional pdf plans demonstrating that the bearings are compatible for the current installation and specifications.

#### **4.0 PROOF OF PERFORMANCE**

##### **4.1 Certification**

4.1.1 The Contractor must, at the time of delivery, provide a type approval certificate from Lloyd's Register, with plans, drawings and fabrication procedures.

##### **4.2 Documentation (Reports/Drawings/Manuals)**

4.2.1 At the same time as the bearings delivery, supply all the engineering calculations (load, vibrations, torsion, etc) for marine application onboard an ice breaker, and the original Lloyds Register of Shipping (LRS) approval certificates.

4.2.2 At the same time as the bearings delivery, supply three (3) copies maintenance, installation and parts manuals in both french and english. Supply all drawings associated to the bearings, and an electronic copy of the manuals and drawings.

##### **4.3 Parts**

4.3.1 Supply a complete bearing cartridge for (1) bearing, including all the internal parts of the roller to allow a fast replacement in case of damage. The complete cartridge must be pack for long term storage.

4.3.2 Provide all special tools (if any) required by the manufacturer to install and maintain the roller bearing. Provide list (if applicable).

4.3.3 Supply all manufacturers recommended spare parts for 1 year of maintenance and for one complete overhaul/survey (With the exception of the complete cartridge referred to in paragraph 4.3.1). Provide list (if applicable).

Solicitation No. - N° de l'invitation  
F3017-16N777/A  
Client Ref. No. - N° de réf. du client  
F3017-16N777

Amd. No. - N° de la modif.  
File No. - N° du dossier  
QCL-6-39303

Buyer ID - Id de l'acheteur  
qc1037  
CCC No./N° CCC - FMS No./N° VME

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**ANNEX "B"**

**BASIS OF PAYMENT**

Price for Supply material and workmanship to fabricate and deliver at destination two (2) grease lubricated split pillow block bearings for the two (2) tailshafts of CCGC Des Groseilliers. Pillow block bearings to be Lloyds Register approved for Ice Class I icebreaker. To be delivered deliver at destination (DDP) Coast Guard Base, Québec City:

Item	Description	Quantity	Unit of distribution	Price / Unit	Total Firm Price CDN
1.1	Split roller bearings:	2	Ea.	\$	\$
4.3	Spare parts:				
4.3.1	Complete bearing cartridge for one (1) bearing, including all internal parts of the roller.	1	Ea.	\$	\$
4.3.2	Recommended special tools (if applicable). Supply list.		Lot	\$	\$
4.3.3	Recommended spare parts (if applicable). Supply list.		Lot	\$	\$
<b>A) Total Firm Price (CDN)</b>					<b>\$</b>

\*Customs duties are included and all applicable taxes are extra, if applicable.

**Delivery:**

- Material to be delivered at:

Canadian Coast Guard Base  
101, Champlain Boulevard  
Quebec City, Qc. G1K 7Y7  
Canada