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1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
Halifax  
Nova Scotia  
B3J 1T3  
Bid Fax: (902) 496-5016

## SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise  
indicated, all other terms and conditions of the Solicitation  
remain the same.

Ce document est par la présente révisé; sauf indication contraire,  
les modalités de l'invitation demeurent les mêmes.

### Comments - Commentaires

Vendor/Firm Name and Address  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution  
Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions  
1713 Bedford Row  
Halifax, N.S./Halifax, (N.É.)  
Halifax  
Nova Scot  
B3J 1T3

<b>Title - Sujet</b> CCGS S.W.A docking refit	
<b>Solicitation No. - N° de l'invitation</b> F5561-200008/A	<b>Amendment No. - N° modif.</b> 001
<b>Client Reference No. - N° de référence du client</b> F5561-20-0008	<b>Date</b> 2020-06-30
<b>GETS Reference No. - N° de référence de SEAG</b> PW-SHAL-311-11002	
<b>File No. - N° de dossier</b> HAL-0-85030 (311)	<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 2020-07-14</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Dunne, Dave	<b>Buyer Id - Id de l'acheteur</b> hal311
<b>Telephone No. - N° de téléphone</b> (902) 401-4294 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

Instructions: See Herein

Instructions: Voir aux présentes

<b>Delivery Required - Livraison exigée</b>	<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/</b> <b>de l'entrepreneur (taper ou écrire en caractères d'imprimerie)</b>	
<b>Signature</b>	<b>Date</b>

**Solicitation amendment 001** is issued to provide:

1. The minutes of the Bidders' Conference;
2. Bidder questions and Canada answers;
3. ITT amendments;
4. Specification amendments;
5. The Pricing Data Sheet; and
6. The Lead Coating Report.

## **MINUTES OF THE BIDDERS CONFERENCE**

### **Solicitation F5561-200008/A Docking Refit CCGS Sir William Alexander**

The Bidders Conference for the CCGS Sir William Alexander Docking Refit was convened by teleconference on June 23, 2020 at 13:00 pm. The following persons attended:

Dave Dunne	Contract Authority (CA)	PSPC
Brad Rafuse	Technical Authority (TA)	CCG
Darrin Akerman	Chief Engineer (CE)	SWA
Stephane Legault	Commanding Officer (CO)	SWA
Andrew Pearson	Senior Engineer	SWA
Francois Leblanc	Estimator	Verreault
Nicolas Cote	Estimator	Verreault
Joe D'Achille		Heddle
Mark Roebathan	Estimator	Newdock
George Penney		Newdock
Jeff Ivany		Newdock

### **Solicitation Closing**

The CA advised that the Tender will close at 2:00 P.M. local, on July 9, 2020 and asked bidders if they felt the solicitation period provided sufficient time to prepare bids.

Bidders present indicated that the solicitation period is insufficient. The CA extended the solicitation closing date to July 14, 2020 and 2:00 pm ADT.

### **Delivery**

The work period is:

Commencement of Work	27 July 2020
Completion of Work	21 September 2020

The CA asked bidders if the work period is sufficient for the scope of work. Bidders present indicated that they are unable to determine at this time.

### **Site Visit**

Due to travel restrictions put in place by many Canadian provinces to reduce the spread of COVID-19, a vessel viewing has not be offered for this refit. Bidders requiring additional information are to contact the Contract Authority.

In lieu of a vessel viewing, photos have been provided to bidders via the FTP site, additional photos and video footage may be made available upon written request to the CA. The vessel is only available this week, therefore, requests must be submitted immediately.

### **Care and Custody**

The refit is unmanned in accordance with article 7.15.3 of the ITT. Care and custody of the vessel will be transferred to the Contractor for the duration of this work period. A limited crew will be assigned to the ship but will be living off site.

Bidders are reminded that NSOP-511 *Minimum Screening Process for CCG Personnel Accessing a Contractors Facility During an Infectious Disease Outbreak such as COVID-19* will apply, and Contractors must consider these requirements in their schedule and bid prices.

### **Pricing Data Sheet**

The Pricing Data Sheet will be provided with the minutes of the bidders' conference as a Solicitation Amendment that will be published in the coming days, and will be structured in a manner that will allow PWGSC and the Technical Authority to cancel any work that has not been started in accordance with the Contractor's schedule. Any cancelled work will be credited in its entirety as per the Pricing Data Sheet if it has not been started. The Pricing Data Sheet is provided to attendees electronically as a draft only.

The CA agreed to provide the pricing data sheet in Excel format upon request, but cautioned bidders that no changes to the pricing data sheet are permitted. Only pricing fields may be populated by bidders. Pricing data sheets that have been otherwise altered will be rejected, rendering the bid non-compliant.

### **Concurrent Work**

During the planned work period some minor shipboard work will be performed by the crew on a non-interference basis. No outside contractors are expected to be working on the vessel.

### **Specification items added or removed for the work package**

- Specification Item H-08A is **DELETED** in its entirety.

### **Tender Deliverables**

Bidders are reminded that in order for bids to be received, the following information must be included with the tender package, and received at PSPC prior to the Solicitation closing date:

- Fully completed and signed Page 1 of the Bid Solicitation document;
- Fully completed Annex F, Financial Bid Presentation Sheet;
- Fully completed Appendix 1 to Annex F, Pricing Data Sheet.

As part of the evaluation process all certifications and other requirements contained in parts 5 and 6 of the solicitation will be requested from the lowest bid received and evaluated. Therefore, all bids may not necessarily be fully evaluated.

### **Solicitation Document**

One bidder expressed that the estimated unscheduled work hours indicated in Annex F, section 1(b) are high. One bidder requested that Canada establish a minimum labour rate in Annex F, section 2.3.

The CA will review both of these items and issue a decision in Solicitation Amendment 001.

### **Tender Submission**

The Contracting Authority encouraged bidders to submit bids using ePost connect. Bidders are reminded that the mailroom at Bedford Row in Halifax is operating at reduced hours due to COVID-19, and the hours of operation are listed in the ITT document.

In accordance with Standard Instructions 2003, section 08, paragraph 2(b)(ii), bidders should open an epost Connect conversation at least six business days prior to the solicitation closing date and time.

## **Specification Review**

### **GENERAL NOTES:**

One bidder questioned the requirement for 24 hour-per-day, 7 day-per-week security on site and requested this to be removed for silent hours. The TA will consider the request and a decision will be made and distributed in solicitation amendment 001.

It is confirmed that CCG will appoint a National Association of Corrosion Engineers (NACE) Inspector, and that CCG, NACE and Shipyard will collaborate to coordinate the schedule of the NACE Inspector.

### **H-01 SERVICES:**

NSOP-511 applies to this refit and contractor is responsible for monitoring and testing all personnel accessing the vessel for symptoms of COVID-19. The TA and CE stated that the requirements of NSOP-511 are the minimum acceptable requirements, however, Contractors may exceed these requirements. One bidder requested that COVID screening requirements is added as a separate line in the pricing data sheet. The CA will consider the request.

The draft pricing data sheet will be updated to reflect the volume of potable water 112,000 liters.

Services includes allowances for liquid waste which is linked to several specification items. The intent of these allowances is to consolidate like-requirements and reduce the administration for adjustments. Contractor remains responsible for tracking and reporting of volumes for adjustment purposes.

Lead coatings have been identified on vessels within the fleet. As such, all coatings must be tested prior to the execution of any work that will disturb any untested coatings. These steps are mandatory and are in place to prevent personnel exposure to airborne lead particles in accordance with SERVICES 29.1. This testing requirement also applies to all onboard equipment.

Bidders should note that a large allowance is in place for lead abatement and another for air quality testing under Services. Bidders are reminded that these services are only required in the event that lead is found to be present during testing of coatings under H-13.

The TA indicated that lead report will be distributed in solicitation amendment 001.

Paragraph 31 has been added to include the requirement for the connection of a cooling water supply line and supply of cooling water.

The TA agreed to accept a non-professional photographer to deliver photos under paragraph 4.1.

One bidder inquired if CCG will accept wireless internet vice hard-wired internet as specified under paragraph 27. The TA will review and a decision will be distributed in solicitation amendment 001.

#### **H-02 PRODUCTION CHART, ITP AND SUBCONTRACTOR ALLOWANCES**

No questions or comments.

#### **H-03 BERTHING & MOORING**

No questions or comments.

#### **H-04 VENTILATION DUCT CLEANING**

Paragraph 2.1.23 is deleted as the cabins will not be occupied during the work period.

#### **H-05 SP BARGE DAVIT ANNUAL SURVEY**

No questions or comments.

#### **H-06 LIFEBOAT DAVIT QUINQUENNIAL SURVEY**

The CE stated that the existing paint is Intershield 300 and interthane 990.

#### **H-07 MIRANDA DAVIT ANNUAL SURVEY**

No questions or comments.

#### **H-08 FRESH WATER TANK CLEANING AND SURVEY**

This spec item is amended to include coating repairs and increased testing requirements.

The TA agreed to provide more photos of transits through cabins.

The CE stated that high pressure is defined as minimum 3000 psi under paragraph 2.1.5.

#### **H-08A FRESH WATER TANK BLASTING AND COATING**

Specification Item H-8A is **DELETED** in its entirety.

#### **H-08B FRESH WATER TANK PIPING RENEWAL**

One bidder questioned the purpose of schedule 80 stainless steel piping. The CE will consider the material requirements and a decision will be distributed in solicitation amendment 001.

#### **H-09 MANHOLE COVER STUD RENEWAL**

No questions or comments.

#### **H-10 DECK LUG INSTALLATIONS**

Some discussion took place regarding equipment access to the hold. It is likely that the small man lift or scissor lift could access the hold, however, the CE will provide the dimensions of the hatch opening and the height of the deck from the deck.

#### **H-11 RADIO ROOM FLOORING RENEWAL**

Some discussion took place regarding required removals from this space. The CE confirmed that only furniture and shelves will have to be removed. The AC unit and IT rack will remain in place and will have to be protected. No plumbing removals will be required.

#### **H-12 TRIM AND STABILITY**

No questions or comments.

#### **H-13 LEAD COATING SURVEY AND MANAGEMENT PLAN**

A significant amount of lead testing has taken place on board and the test results will be made available as discussed in Services.

Bidders should note that CCG will own the intellectual property of the *Vessel Specific Coating Management Plan* that is to be produced by the subcontractor.

#### **HD-01 DRYDOCKING**

One bidder asked if the requirement for a diver is mandatory and if it could be removed. The TA and CE will consider and a decision will be distributed in solicitation amendment 001.

#### **HD-02 STERN TUBE BEARING WEAR DOWN**

No questions or comments.

### **HD-03 HULL WELDING SURVEY AND REPAIRS**

One bidder asked if confined space requirements and coating repairs will be actioned by the 1379 process. The TA advised that it is assumed that confined space entry and coating touch ups will be required but it is impossible to fully define the requirement at this point. For bidding purposes assume that no confined space or coating repairs will be required.

### **HD-04 HULL CLEANING AND COATING**

Para 2.1.11 is clarified to require consultation with the NACE inspector to determine total area of coating requiring repairs.

### **HD-05 RUDDER & RUDDERSTOCK SURVEY**

Paragraph 2.1.15 is clarified that the price will be prorated based on the number of bushings renewed.

### **HD-06 BALLAST TANK SURVEYS**

No questions or comments.

### **HD-06A FORE PEAK TANK COATING**

The CE clarified that the tank is accessible and SP-10 blasting of the entire tank is possible.

### **HD-06B BALLAST TANK TRANSDUCER MODIFICATIONS**

The CE agreed to provide additional photos of the brackets. The CE will determine the location of the 3/4" glands and advise bidders if staging is required.

### **HD-07 VOID TANK SURVEY**

No questions or comments.

### **HD-08 FUEL TANK SURVEYS**

No questions or comments.

### **HD-09 SEACHEST NAD SEABAY SURVEY**



One bidder indicated that Intertuf 203 black does not exist. The CE will determine a suitable substitute and advise.

#### **SEACHEST ANODE RENEWAL**

No questions or comments.

#### **HD-11 IMPRESSED CURRENT CATHODIC PROTECTION SYSTEM SURVEY**

No questions or comments.

#### **HD-12 BOW THRUSTER OIL CHANGE**

No questions or comments.

#### **HD-13 OVERBOARD DISCHARGE VALVE SURVEY**

The CE confirmed that every valve must be removed to check flanges. Overhauls must be performed in the yard shop and not on the vessel.

One bidder stated that interferences could be significant.

#### **HD-14 TAILSHAFT AND PROPELLER SURVEYS**

Paragraph 2.1.17 is clarified that the allowance is applicable for a subcontractor or work done in-house. Subcontractor and material invoices are eligible for the mark-up in 2.1.17 and in-house labour will be paid at the contracted labour rate based on timesheets.

#### **HD-15 STARBOARD STERN TUBE SEAL SURVEY**

One bidder pointed out that the French version of the spec contains an error in the allowance in 2.1.1. The CA confirmed that the allowance is \$30,000.00.

#### **HD-16 ANCHORS, CHAINS AND CHAIN LOCKER SURVEY**

One bidder indicated that Intershield 300 black does not exist. The CE will determine a suitable substitute and advise.

#### **HD-16A CHAIN LOCKER REPAIRS**

No questions or comments.

#### **HD-17 PROPULSION MOTOR ROOM HULL AND FRAMING REPAIRS**

One bidder expressed concern over the proximity of the steelwork to the shaft seal. The CE will provide some photos and measurements.

#### **E-01 ANCHOR WINDLASS SURVEY**

No questions or comments.

#### **E-01A ANCHOR WINDLASS POWER PACK PUMP OVERHAULS**

Paragraph 2.1.21 is clarified that FSR travel may be claimed against the allowance.

#### **E-02 FORWARD MORROING WINCH OVERHAULS**

No questions or comments.

#### **E-02A PORT AND STARBOARD MORRING WINCH POWER PACK OVERHAULS**

No questions or comments.

#### **E-03 TOW ROPE STORAGE REEL OVERHAUL**

No questions or comments.

#### **E-03A AFT DECK MACHNERY POWER PACK OVERHAUL**

No questions or comments.

#### **E-04 BOILER SURVEYS**

No questions or comments.

#### **E-05 GANGWAY ANNUAL INSPECTIONS AND STARBOARD TURNTABLE OVERHAUL**

No questions or comments.

#### **E-06 STEERING GEAR HYDRAULIC SYSTEM OVERHAUL**

Paragraph 2.1.6 is clarified that the allowance is applicable for a subcontractor or work done in-house. Subcontractor and material invoices are eligible for the mark-up in 2.1.6 and in-house labour will be paid at the contracted labour rate based on timesheets.

#### **L-01 GALLEY STOVE CLEANING**

No questions or comments.

#### **L-02 PORT PROPULSTION MOTOR AND COOLER SURVEY**

No questions or comments.

#### **L-03 ELECTRIC MOTOR AND FAN OVERHAUL**

No questions or comments.

#### **L-04 ELECTRICAL TRANSIT SURVEY AND REPAIRS**

Paragraph 2.1.4 is deleted.

#### **T-01 SEATEL ST24 TVRO ANTENNA INSTALLATION**

No questions or comments.

#### **T-02 THALES VESSELLINK INSTALLATION**

No questions or comments.

#### **Open Discussion Items**

Some discussion took place regarding interference items. Bidders generally agreed that in the absence of a formal vessel viewing it is difficult for them to identify interferences. PSPC and CCG will discuss and more information will be distributed in solicitation amendment 001.

There being no further questions or discussion, the CA adjourned at 14:15 pm ADT.

#### **QUESTIONS AND ANSWERS**

##### **Tender Document**

Q1. Can the unscheduled work hours in Annex F, Section 1(b) be reduced?

A1. Yes, the number of unscheduled work hours is changed to 4500.

Q2. Will Canada establish a minimum labour rate in Annex F, Section 2.3?

A2. No.

##### **General**

Q3. Without an opportunity to view the vessel bidders are unable to identify interferences. How will interferences be handled for all spec items?

A3. Canada acknowledges that it is difficult for interferences to be identified. Bidders are strongly encouraged to request photos and video footage of any location in which

interferences may impact the work. Interferences that can't be identified in photos or video will be negotiated on a case-by-case basis.

Q4. Will CCG provide video footage of interference items?

A4. Yes, video footage has been uploaded to the FTP site <ftp://copper.pwgsc.gc.ca> and this footage can be used to identify interference items. Additional footage can be made available upon request.

#### H-01

Q5. Will CCG remove the requirement for 24 hour-per-day, 7 day-per-week security?

A5. No.

Q6. Will COVID screening requirements be added to the Pricing Data Sheet?

A6. No.

Q7. Will the vessel accept wireless internet vice hard-wired internet?

A7. No, a hard wire connection is required.

#### H-08B

Q8. Schedule 80 stainless steel piping is not necessary, will CCG accept a lower grade pipe?

A8. Yes, change to Schedule 40.

#### H-10

Q9. Please provide measurements of the hatch opening.

A9. Hold dimensions: 6' x 12' that is unobstructed, height of the deck: 22'.

#### HD-01

Q10. Can the requirement for a diver be removed?

A10. Yes, however, the Dockmaster remains responsible for ensuring the vessel is sitting evenly on the bilge and keel blocks.

#### HD-06

Q11. Is staging required to access the glands?

A11. No

Q12. Please provide photos of the brackets.

A12. Photo attached. Two glands will be located in the Bilge of the cycloconverter room. This will require a Gas free, however the bilge in that areas is generally clean.

#### HD-09

Q13. Intertuf 203 black does not exist, what is the alternative?

A13. Intershield 300

#### HD-14

Q14. In regard to the spec item HD-14 (2.1.8), the shipyard is to fabricate / supply 4 x Coupling fitted bolts, but there is no detail about the bolt sizes / material on the supplied drawings. Is it possible to have the information required for these bolts?

A14: The material is ANSI 4140 Steel, approximately 3 inch hex head on the bolt. Overall length of approximately 13 inches.

#### HD-16

Q15. Intershield 300 black does not exist, what is the alternative?

A15. (2) Coats of Intershield 300 primer, and (1) top coat of Interthane 990.

#### HD-17

Q16. How close is the section of steel repairs to the shaft seal?

A16. Distance from the shaft seal is approximately 3'.

#### E-06

Q17. I understand that there is a \$100k allowance for a Rexroth rep to carry out all hydraulics for Jobs E-01 –E-03A. However, there is a separate allowance for a Rexroth rep for \$25k in job E-06 but the spec says that it is only for the hydraulic pump portion of the work? Is the intent for this allowance to cover off all of the hydraulic work associated with E-06? This would be much clearer and straightforward instead of having two different sub-contractors splitting up the hydraulic work.

A17. No, the allowance under E-06 is in place to overhaul the existing steering gear pumps only.

### **ITT AMENDMENTS**

Article 2.9.2 (ii) **INSERT** the following:

Heddle Marine, Port Weller, ON	\$68,960.00
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Annex F, Section 1(b):

**DELETE:** 6000  
**INSERT:** 4500

## **SPECIFICATION AMENDMENTS**

General Notes paragraph 1.19 **INSERT** the following:

*The Contractor is required to provide 24/7 manned security of the vessel, including a physical patrol of the vessel every 2 hours. The Contractor must provide Coast Guard 24/7 access to the vessel/shipyard in the event they are required to attend the vessel to operate ships systems and equipment or silence alarms.*

H-01 paragraph 4.1 is **AMENDED** as follows:

The Contractor must supply a ~~professional~~ photographer...

H-01 **INSERT** the following:

### ***31. Central Cooling System Cooling Water Connection & Supply***

*31.1 Contractor must connect a 3" saltwater cooling water supply line to the saltwater side of the vessels central cooling system to allow for the cooling of domestic systems such as refrigeration and A/C. The salt water cooling water supply must supply a constant flow of saltwater at a maximum of 30 psi. The 3" saltwater cooling water line must be installed with an isolation valve where it connects to the central cooling system and one outside the vessel so that cooling water flow can be isolated in the event of a leak. The Contractor is responsible for routing the saltwater cooling water discharge overboard away from the hull so that it does not interfere with hull cleaning and painting.*

H-04 paragraph 2.1.23 is **DELETED** in its entirety.

H-06 paragraph 2.1.17 is **AMENDED** as follows:

~~Each deck bracket must be painted with one (1) coat of marine grade epoxy primer and two (2) coats of marine grade white epoxy paint. All coatings must be applied as per the manufactures instructions.~~ *Each bracket must be painted with (2) coats of Intershield 300 epoxy primer, 6 mils DFT per coat, and (2) top coats of Interthane 990 white 2 mils DFT.*

H-06 paragraph 2.1.18. is **AMENDED** as follows:

Each davit arm must be painted with ~~one (1) coat of marine grade epoxy primer~~ *(2) coats of Intershield 300 epoxy primer 6 mils DFT per coat* and ~~two (2) coats of marine grade white epoxy paint~~ *and (2) top coats of Interthane 990 white, 2 mils DFT per coat.*

Paragraph 2.1.38A **INSERT** the following:

*The Contractor must be abrasive blast the cylinder exterior to SSPC SP-10 Near white. The Contractor must ensure that no grit enters the internals of the cylinder. The Contractor must ensure that the cylinder internals are free of all grit when completed. The exterior of the cylinders must be coated with (2) coats of Intershield 300 to 6 mils DFT per coat. The cylinders must be top coated with and (2) coats of Interthane 990 white to 2 mils DFT per coat.*

H-06 paragraph 2.1.42:

**DELETE:** (2) coats of a marine grade epoxy primer. Contractor must apply (2) top coats of marine grade epoxy paint white to the entire external surface of the tank

**INSERT:** *(2) coats of a Intershield 300, 6 mils DFT per coat. The entire tank must be coated using (2) top coats of Interthane 990 white, 2 mils DFT per coat.*

H-06 paragraph 2.1.49 is **AMENDED** as follows:

Any disturbed coatings must be renewed by the Contractor using (2) coats of a ~~marine grade epoxy primer~~ *Intershield 300 primer to 6 mils DFT per coat and (2) top coats of a marine grade epoxy paint Interthane 990 to 2 mils DFT per coat,* top coat colour must match the surrounding area being coated.

H-07 paragraph 2.1.6:

**DELETE:** primed as per paint specification CM60022

**INSERT:** *coated with (2) coats of Intershield 300, 6 mils DFT per coat.*

H-07 paragraph 2.1.7:

**DELETE:** as per paint specification CM600222 03-Boat Davit Ramps

**INSERT:** *with (2) coats of Interthane 990, 2 mils DFT per coat colour Interthane 990*

H-08 paragraph 1.1.1. is **AMENDED** as follows:

The intent of this specification item is for Contractor to open ~~and~~ clean *and repair the coating on* the fresh water tanks.

H-08 paragraph 2.1.5 is **AMENDED** as follows:

The internals of each tank must be high pressure (*>3000 psi*) water washer

H-08 paragraph 2.1.10 is **DELETED** in its entirety and **REPLACED** with the following:

*The Contractor and the CGIA must inspect the tank to determine what areas of the tanks will require coating repairs in consultation with the CG appointed NACE Inspector. The areas must be agreed upon prior to any surface preparation taking place. All areas that require coating repairs must be power tool cleaned to bare metal, SSPC SP-11. The existing coating must be feathered back. All areas requiring coating must be coated with two coats of InterLine 975P, 8 mils DFT per coat for a total of 16 mils. The Contractor must ensure that all debris from Power tool cleaning must be removed from the Fresh water tank prior to coating taking place. Contractor must include a cost in their bid for repairing 10m<sup>2</sup> of coating in each fresh water tank for a total of 20m<sup>2</sup>. This cost will be included in the overall bid and will be prorated up or down based on the total area of coating repairs required using the PSC 1379 process. The fresh water tank coating is International Interline 975P White. All coatings must be applied as per manufacturer's specifications and application guidelines.*

H-08 Paragraph 2.1.19 **INSERT** the following:

*Contractor must allow the water to sit in the tanks a minimum of 72 hours prior to taking the second water sample.*

H-08 paragraph 3.2.2. **INSERT** the following:

*CCGC 05-2020 Integrated Technical Services Technical Bulletin: Potable Water Tank Coatings Update, Lessons Learned and Recommendations.*

H-08A is **DELETED** in its entirety.

H-08B paragraph 2.1.2:

**DELETE:** schedule 80

**INSERT:** schedule 40

HD-01 paragraph 2.1.4 is **DELETED** in its entirety.

HD-03 paragraph 2.1.4 **INSERT** the following:

*For bidding purposes assume that no confined space or coating repairs will be required.*

HD-04 paragraph 2.1.11 is **AMENDED** as follows:



The total area requiring repairs must be agreed upon by Contractor, the CGIA the CGTA, and PSPC *and in consultation with the CG appointed NACE Inspector*. ~~The CG appointed NACE inspectors advice will be used in determining the area prior to any repair work starting.~~

HD-05 paragraph 2.1.15 is **AMENDED** as follows:

This quote must form part of the overall bid *and will be prorated up or down based on the final number of bushings renewed*, ~~but shown separately.~~

HD-06A paragraph 2.1.7. is **AMENDED** as follows:

**DELETE:** 300 (Bronze) to 11 mil DFT and a final coat of Intershield 300 (Aluminum)

**INSERT:** *The Contractor must use contrasting colours with the final coat being Aluminum.*

HD-09 paragraph 2.1.15 **INSERT** the following:

*Contractor must apply (1) coat of Intershield 200 to 8 mils DFT, followed by (1) coat of Interspeed 640 to 4 mils DFT. Prior to each coating application a tripe coat must be applied to all edges, corners and hard to reach areas.*

HD-09 **DELETE** paragraphs 2.1.15.1, 2.1.15.2 and 2.1.15.3 in its entirety.

HD-14 paragraph 2.1.17 is **AMENDED** as follows:

The allowance will form part of the overall bid price and will be adjusted up or down upon proof of invoices *and/or timesheets* using the PSPC 1379 process.

HD-14 paragraph 2.1.18 is **AMENDED** as follows:

The allowance will form part of the overall bid and will be adjusted up or down based on ~~the actual work carried~~ invoices *and/or timesheets* using the PSPC 1379 process

HD-15 paragraph 2.1.1 (FRENCH VERSION ONLY):

**DELETE:** 300 000 \$

**INSERT:** 30 000 \$

HD-16 paragraph 2.1.10 is **AMENDED** as follows:

The Contractor must apply *(1) coat (2) coats of Intergard 5377 to 6 mils DFT*  
~~Intershield 300 Black~~ to both sides of the chain to a DFT of 8 mils per coat. The  
coating must applied as per manufacturers specifications, and must be cured prior to  
rotating the chain to paint the other side.

HD-16 paragraph 2.1.13:

**DELETE:** 8 -10 mils DFT per coat

**INSERT:** *5 mils DFT. The anchors must be top coated with (2) coats of Interthane  
990 black to 2 mils DFT per coat.*

E-01 paragraph 2.1.21, **INSERT** the following:

*The FSR will be reimbursed for the authorized travel and living expenses  
reasonably and properly incurred in the performance of the specified work, at  
cost without any allowance for overhead or profit.*

E-01 paragraph 4.1.2 is **DELETED** in its entirety.

E-06 paragraph 2.1.6 is **AMENDED** as follows:

This allowance will be included in the overall bid and will be adjusted up or down  
using the PSPC 1379 process upon proof of invoice *and/or timesheets*.

L-04 paragraph 2.1.4 is **DELETED** in its entirety.

### **PRICING DATA SHEET**

See attached.

### **LEAD COATINGS REPORT**

Lead Coating Report has been uploaded to the technical data package on the FTP site.

*All other terms and conditions remain the same.*

**APPENDIX 1 TO ANNEX F**  
**PRICING DATA SHEET \*DRAFT\***

<b>H-01 Services (57 Days)</b>	1	\$
Para 15.2 Electric Power \$ _____ / kWh x 6,500 kWh (estimate)	2	\$
Para 17.2 Potable Water \$ _____ / litre x 112,000 litres (estimate)	3	\$
Para 19.1 Cranage \$ _____ / hour x 100 hours (estimate)	4	\$
Para 20.1 Removal/disposal waste oil \$ _____ / litre x 4,415 litres (estimate)	5	\$
Para 21.1 Removal/disposal diesel \$ _____ / litre x 3,000 litres (estimate)	6	\$
Para 22.1 Removal/disposal contaminated water \$ _____ / litre x 23,000 litres (estimate)	7	\$
Para 25.1 Deck protection \$ _____ / m² x 500 m² (estimate)	8	\$
Para 26.1 Bulkhead protection \$ _____ / m² x 300 m² (estimate)	9	\$
Para 29.3 Subcontractor allowance	10	\$250,000.00
Para 29.3 allowance markup ____% (max 10%) x \$250,000 (estimate)	11	\$
Para 29.6 Subcontractor allowance	12	\$25,000.00
Para 29.6 allowance markup ____% (max 10%) x \$25,000 (estimate)	13	\$
Para 29.10 Subcontractor allowance	14	\$25,000.00
Para 29.10 allowance markup ____% (max 10%) x \$25,000 (estimate)	15	\$
<b>H-02 Production Chart, ITP and Subcontractor Allowances</b>	16	\$
<b>H-03 Berting and Mooring</b>	17	\$
2.1.3 Costs for Tugs and Pilots	18	\$
<b>H-04 Ventilation Duct Cleaning</b>	19	\$
<b>H-05 SP Barge Davit Annual Survey</b>	20	\$
Para 2.1.2 FSR allowance	21	\$10,000.00
Para 2.1.2 allowance markup ____% (max 10%) x \$10,000 (estimate)	22	\$
<b>H-06 Lifeboat Davit Quinquennial Survey</b>	23	\$
Para 2.1.2 FSR allowance	24	\$20,000.00
Para 2.1.2 allowance markup ____% (max 10%) x \$20,000 (estimate)	25	\$
Para 2.1.2 Parts allowance	26	\$10,000.00
Para 2.1.2 allowance markup ____% (max 10%) x \$10,000 (estimate)	27	\$
2.1.23 Removal/reinstallation of winch	28	\$
Para 2.1.32 Parts allowance	29	\$10,000.00
Para 2.1.32 allowance markup ____% (max 10%) x \$10,000 (estimate)	30	\$
Para 2.1.41 Re-chrome allowance	31	\$10,000.00
Para 2.1.41 allowance markup ____% (max 10%) x \$10,000 (estimate)	32	\$
<b>H-07 Miranda Davit Annual Inspection</b>	33	\$
2.1.10 Davit removal/storage	34	\$
<b>H-08 Fresh Water Tank Cleaning &amp; Survey</b>	35	\$
2.1.10 Fresh water tank coating repair \$ _____ / m² x 20 m² (estimate)	36	\$
<del><b>H-08A Fresh Water Tank Blasting and Coating DELETED</b></del>	xx	xxxxxx
<b>H-08B Fresh Water Tank Piping Renewal</b>	37	\$
<b>H-09 Manhole Cover Stud Renewal</b>	38	\$
2.1.2 Renewal of studs \$ _____ / stud x 10 studs (estimate)	39	\$
<b>H-10 Deck Lug Installations</b>	40	\$

<b>H-11 Radio Room Flooring Renewal</b>	41	\$
<b>H-12 Trim and Stability</b>	42	\$
<b>H-13 Lead Coating Survey and Management Plan</b>	43	\$
2.1.2 Subcontractor allowance	44	\$100,000.00
2.1.2 allowance markup ____ % (max 10%) x \$100,000 (estimate)	45	\$
<b>HD-01 Drydocking</b>	46	\$
<b>HD-02 Stern Tube Bearing Wear Down</b>	47	\$
<b>HD-03 Hull Welding Survey &amp; Repairs</b>	48	\$
2.1.3.1 Arc gouging \$ ____ / linear ft x 100 linear ft (estimate)	49	\$
2.1.3.2 Bead weld \$ ____ / linear ft x 500 linear ft (estimate)	50	\$
2.1.3.3 Gas free certificates \$ ____ / certificate x 5 certificates (estimate)	51	\$
2.1.3.4 NDT inspections \$ ____ / inspection x 10 inspections (estimate)	52	\$
<b>HD-04 Hull Cleaning and Coating</b>	53	\$
2.1.19 Underwater hull grit blast \$ ____ / m <sup>2</sup> x 725 m <sup>2</sup> (estimate)	54	\$
2.1.26 Ice belt grit blast \$ ____ / m <sup>2</sup> x 225 m <sup>2</sup> (estimate)	55	\$
2.1.32 Above water hull grit blast \$ ____ / m <sup>2</sup> x 112.5 m <sup>2</sup> (estimate)	56	\$
2.1.37 Subcontractor allowance	57	\$5,000.00
2.1.37 allowance markup ____ % (max 10%) x \$5,000 (estimate)	58	\$
2.1.38 Hull symbol painting	59	\$
<b>HD-05 Rudder &amp; Rudderstock Survey</b>	60	\$
2.1.15 Renew pintle bushings \$ ____ / bushing x 3 bushings (estimate)	61	\$
2.1.17 Supply/install M40 zinc anodes \$ ____ / anode x 12 anodes (estimate)	62	\$
2.1.21 Surface prep/coating \$ ____ / m <sup>2</sup> x 5 m <sup>2</sup> (estimate)	63	\$
2.1.25 FSR allowance	64	\$10,000.00
2.1.25 allowance markup ____ % (max 10%) x \$10,000 (estimate)	65	\$
2.1.27 Supply Fairwater plates \$ ____ / plate x 2 plates (estimate)	66	\$
<b>HD-06 Ballast Tank Surveys</b>	67	\$
2.1.5 Supply/install ZHS-23T anodes \$ ____ / anode x 50 anodes (estimate)	68	\$
2.1.10 Surface prep/coating \$ ____ / m <sup>2</sup> x 400 m <sup>2</sup> (estimate)	69	\$
<b>HD-06A Fore Peak Tank Coating</b>	70	\$
<b>HD-06B Ballast Tank Transducer Modifications</b>	71	\$
2.1.7 Supply/install wire hangers \$ ____ / hanger x 50 hangers (estimate)	72	\$
<b>HD-07 Void Tank Survey</b>	73	\$
2.1.9 Surface prep/coating \$ ____ / m <sup>2</sup> x 50 m <sup>2</sup> (estimate)	74	\$
<b>HD-08 Fuel Tank Surveys</b>	75	\$
<b>HD-09 Seachests &amp; Seabay Survey</b>	76	\$
2.1.12 Supply/install M24 anodes \$ ____ / anode x 42 anodes (estimate)	77	\$
2.1.14 Blast/recoat seachests/seabay \$ ____ / m <sup>2</sup> x 400 m <sup>2</sup> (estimate)	78	\$
2.1.19 Renewal of fasteners \$ ____ / fastener x 10 fasteners (estimate)	79	\$
2.1.24 Supply/install teardrop anodes \$ ____ / anode x 6 anodes (estimate)	80	\$
<b>HD-10 Seachest Anode Renewal</b>	81	\$
2.1.3 FSR allowance	82	\$10,000.00
2.1.3 allowance markup ____ % (max 10%) x \$10,000 (estimate)	83	\$

2.1.7 Remove/install anodes \$ _____ / anode x 8 anodes (estimate)	84	\$
<b>HD-11 Impressed Current Cathodic Protection System Survey</b>	85	\$
2.1.8 Renewal anodes \$ _____ / anode x 4 anodes (estimate)	86	\$
2.1.8 Renewal reference cells \$ _____ / cell x 2 cells (estimate)	87	\$
<b>HD-12 Bow Thruster Oil Change</b>	88	\$
2.1.8 Remove/install anodes \$ _____ / anode x 9 anodes (estimate)	89	\$
<b>HD-13 Overboard Discharge Valve Survey</b>	90	\$
<b>HD-14 Tailshaft and Propeller Surveys</b>	91	\$
2.1.6 Subcontractor allowance	92	\$30,000.00
2.1.6 allowance markup ____% (max 10%) x \$30,000 (estimate)	93	\$
2.1.8 Fabricate/supply bolts \$ _____ / bolt x 4 bolts (estimate)	94	\$
2.1.17 Subcontractor or labour/material allowance	95	\$15,000.00
2.1.17 allowance (material) markup ____% (max 10%) x \$15,000 (estimate)	96	\$
2.1.18 Subcontractor or labour/material allowance	97	\$10,000.00
2.1.18 allowance (material) markup ____% (max 10%) x \$10,000 (estimate)	98	\$
2.1.19 Set tail shaft in lathe and measure for trueness	99	\$
2.1.22 Remove/machine/install/fit bearings \$ _____ / bearing x 2 bearings (estimate)	100	\$
2.1.26 Supply/apply Belzona \$ _____ / kg x 6 kgs (estimate)	101	\$
2.1.28 Propeller fits \$ _____ / fit x 4 fits (estimate)	102	\$
<b>HD-15 Starboard Sterntube Seal Survey</b>	103	\$
2.1.1 FSR allowance	104	\$30,000.00
2.1.1 FSR allowance markup ____% (max 10%) x \$30,000 (estimate)	105	\$
2.1.11 Cost for machining brass seat	106	\$
2.1.12 Cost for machining seal components	107	\$
<b>HD-16 Anchors, Chains &amp; Chain Locker</b>	108	\$
<b>HD-16A Chain Locker Repairs</b>	109	\$
2.1.1 Steel replacement \$ _____ / m² x 12 m² (estimate)	110	\$
<b>HD-17 Propulsion Motor Room Hull &amp; Framing Repairs</b>	111	\$
2.1.11 Radiographic weld tests \$ _____ / test x 6 tests (estimate)	112	\$
<b>E-01 Anchor Windlass Survey</b>	113	\$
2.1.21 FSR allowance	114	\$100,000.00
2.1.21 FSR allowance markup ____% (max 10%) x \$100,000 (estimate)	115	\$
<b>E-01A Anchor Windlass Power Pack Pump Overhaul</b>	116	\$
<b>E-02 Forward Morrong Winch Overhauls</b>	117	\$
<b>E-02A Port and Starboard Mooring Winch Power Pack Overhauls</b>	118	\$
<b>E-03 Tow Rope Storage Reel Overhaul</b>	119	\$
<b>E-03A Aft Deck Machinery Power Pack Overhaul</b>	120	\$
<b>E-04 Boiler Surveys</b>	121	\$
2.1.26 Supply 6 m³ distilled water	122	\$
<b>E-05 Gangway Annual Inspections &amp; Starboard Turntable Overhaul</b>	123	\$

2.1.15 Subcontractor allowance	124	\$10,000.00
2.1.15 Subcontractor allowance markup ____ % (max 10%) x \$10,000 (estimate)	125	\$
<b>E-06 Steering Gear Hydraulic System Overhaul</b>	126	\$
2.1.6 Fabrication allowance	127	\$5,000.00
2.1.6 Fabrication (material) allowance markup ____ % (max 10%) x \$5,000 (estimate)	128	\$
2.1.12 FSR allowance	129	\$25,000.00
2.1.12 FSR allowance markup ____ % (max 10%) x \$25,000 (estimate)	130	\$
<b>L-01 Galley Stove Cleaning</b>	131	\$
<b>L-02 Port Propulsion Motor and Cooler Survey</b>	132	\$
2.1.2 Subcontractor allowance	133	\$30,000.00
2.1.2 Subcontractor allowance markup ____ % (max 10%) x \$30,000 (estimate)	134	\$
<b>L-03 Electric Motor &amp; Fan Overhauls</b>	135	\$
<b>L-04 Electrical Transit Survey &amp; Repairs</b>	136	\$
2.1.16 Repacking Roxtec transits \$ ____ / transit x 5 transits (estimate)	137	\$
2.1.16 Repacking Brattberg transits \$ ____ / transit x 5 transits (estimate)	138	\$
<b>T-01 Seatel ST24 TVRO Antenna Installation</b>	139	\$
<b>T-02 Thales Vesselink Installation</b>	140	\$
<b>TOTAL TAXES NOT INCLUDED (items 1 to 140) This is the price for Known Work in Annex F</b>		\$

HD-06B BRACKET  
HD-06B GOUSSET

