



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving - PWGSC / Réception des
soumissions - TPSGC

11 Laurier St. / 11, rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5
Bid Fax: (819) 997-9776

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

Ship Refits and Conversions / Radoubss et
modifications de navires and / et
11 Laurier St. / 11, rue Laurier
6C2, Place du Portage
Gatineau, Québec K1A 0S5

Title - Sujet HMCS HAIDA- Alongside Refit 2018	
Solicitation No. - N° de l'invitation 5P300-180111/A	Date 2018-09-05
Client Reference No. - N° de référence du client 5P300-180111	GETS Ref. No. - N° de réf. de SEAG PW-\$\$MD-021-26973
File No. - N° de dossier 021md.5P300-180111	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-09-27	
Time Zone Fuseau horaire Eastern Daylight Saving Time EDT	
F.O.B. - F.A.B.	
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Byron, Dan	Buyer Id - Id de l'acheteur 021md
Telephone No. - N° de téléphone (819) 420-2898 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	
Specified Herein Précisé dans les présentes	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, if applicable, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Financial and Other Requirements: includes specific requirements that must be addressed by bidders; and
- Part 7 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Technical Specification, the Basis of Payment, the Federal Contractors Program for Employment Equity - Certification, the Insurance Requirements and other Annexes.

1.2 Summary

1. The Requirement is:
 - a) To carry out the alongside refit, repair, and maintenance and alterations of the HMCS Haida – Heritage Vessel and National Historic Site in accordance with Annex A – Statement of Work, and any associated technical information. The work is to be carried out at the HMCS Haida's Jetty, Pier 9, 658 Catharine St. N, Hamilton, ON L8L 8K4
 - b) To carry out unscheduled work authorized by the Contracting Authority.
2. Bidders must provide a list of names, or other related information as needed, pursuant to section 01 of Standard Instructions 2003.
3. The requirement is exempt from the provisions of the World Trade Organization Agreement on Government Procurement (WTO-AGP), Annex 4 and the North American Free Trade Agreement (NAFTA), Chapter Ten Annex 1001.2b Paragraph 1(a). However, it is subject to the Agreement on Internal Trade (AIT). The sourcing strategy relating to this procurement will be limited to suppliers in Eastern Canada, in accordance with Shipbuilding, Refit, Repair and Modernization Policy (2010-08-16).
4. There is a Federal Contractors Program (FCP) for employment equity requirement associated with this procurement; see Part 5 - Certifications, Part 7 - Resulting Contract Clauses and the annex named Federal Contractors Program for Employment Equity - Certification.

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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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

PART 2 - BIDDER INSTRUCTIONS

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

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) 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 (2017-04-27) 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 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 **five (5) working days** before the bid closing date. Enquiries received after that time may not be answered.

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

Any clarifications or changes to the bid solicitation resulting from the questions and answers will be included as an amendment to the bid solicitation.

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 Ontario.

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.

Refer to Annex "J1" for Deliverables/Certifications.

2.5 Bidders' Conference

A bidder's conference chaired by the Contracting Authority will be held on **Thursday September 13 on board the vessel** at 1:00 PM (directly following the site visit). The vessel is tied up at the HMCS Haida's Jetty, Pier 9, 658 Catharine St. N, Hamilton, ON L8L 8K4. The scope of the requirement outlined in the solicitation will be reviewed during the conference and questions will be answered. It is recommended that bidders who intend to submit a bid attend or send representation.

Bidders are requested to communicate with the CA before the conference to confirm attendance. Bidders should provide, in writing to the CA, the names of the person(s) who will be attending and a list of issues they wish to table no later than three (3) business days before the scheduled Conference.

Any clarifications or changes to the solicitation resulting from the Bidder's Conference will be included as an amendment to the solicitation.

Bidders who do not attend will not be precluded from submitting a bid.

2.6 Optional Site Visit - Vessel

It is recommended that the Bidder or a representative of the Bidder visit the work site. Arrangements have been made for the site visit to be held on **Thursday September 13 at 9:00 AM** on board the vessel. All visitors must report to the Main Gate, where they will sign in and be directed to the main boardroom on the vessel. The vessel is tied up at the HMCS Haida's Jetty, Pier 9, 658 Catharine St. N, Hamilton, ON L8L 8K4.

Bidders are requested to communicate with the Contracting Authority no later than three (3) business days prior to the site visit date to confirm attendance and provide the name(s) of the person(s) who will attend. Bidders may be requested to sign an attendance sheet. Bidders who do not attend or do not send a representative will not be given an alternative appointment but they will not be precluded from submitting a bid. Any clarifications or changes to the bid solicitation resulting from the site visit will be included as an amendment to the bid solicitation.

2.7 Work Period - Marine

Work must commence and be completed as follows:

Commence: October 8, 2018
Complete: November 16, 2018

By submitting a bid, the Bidder certifies that they have sufficient materiel and human resources allocated or available and that the above work period is adequate to both complete the known work and absorb a reasonable amount of unscheduled work.

2.7.1 Additional Instructions to Work Period

From refit start date of **October 8, 2018 to the completion date of November 15** the vessel will be unmanned during the work period and will be considered to be out of commission. The vessel during that period will be in the care and custody of the Parks Canada and under the control of Parks Canada.

2.8 Equivalent Products

The SACC B3000T (2006-06-16) Equivalent Products, are incorporated by reference into and form part of the bid solicitation.

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>). To assist Canada in reaching its objectives, bidders are encouraged to :

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and/or 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

The Bidder must provide all of the deliverables as referenced in Annex "J1" Deliverables and Certifications.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Financial Bid Presentation Sheet in Annex "H", and the detailed Pricing Data Sheet, Appendix 1 to Annex "H". The total amount of Applicable Taxes must be shown separately.

Section III: Certifications

Bidders must submit the certifications required under Part 5.

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3.1.1 Unscheduled Work and Evaluation Price

In any vessel refit, repair or docking contract, unscheduled work will arise after the vessel and its equipment is opened up and surveyed.

An anticipated cost for the unscheduled work will be included in the evaluation price. The evaluation price will be calculated by including an estimated amount of additional person-hours multiplied by a firm hourly charge-out labour rate for unscheduled work and will be added to the firm price for the known work.

The Evaluation Price will be used for evaluating the bid. The additional amount of person-hours for unscheduled work will be based on historical experience and there is no minimum or maximum amount of unscheduled work nor is there a guarantee of such unscheduled work.

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, management and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

Section I - Technical Bid / Certifications

Notwithstanding deliverable requirements specified within the bid solicitation and its associated Technical Specification Annex "A", mandatory deliverables that must be submitted with the Bidder's bid to be deemed responsive are summarized in Annex "J1".

Section II - Financial Bid

In order to be compliant, the Bidder's bid must, to the satisfaction of Canada, meet all requirements and provide all information required under Part 3, Section II - Financial Bid.

Canada reserves the right to request information to support any bid requirement. The Bidder is instructed to address each requirement in sufficient depth to permit a complete analysis and assessment by the Evaluation Team. The Bid will be deemed responsive if it is found to meet all the mandatory requirements.

4.1.1 Evaluation of Price

SACC Manual Clause A0220T (2007-05-25) Evaluation of Price

4.2 Basis of Selection

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

Bidders should note that all contract awards are subject to Canada's internal approvals process, which includes a requirement to approve funding in the amount of any proposed Contract. Notwithstanding that a Bidder may have been recommended for award of Contract, issuance of any Contract will be contingent upon internal approval in accordance with Canada's policies. If such approval is not given, no Contract will be awarded.

4.3. Deliverables after Contract Award

Refer to Annex "J2".

PART 5 - CERTIFICATIONS

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

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

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority may render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required Precedent to Contract Award

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>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

5.1.2 Federal Contractors Program for Employment Equity - Bid Certification

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

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

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 C 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 - FINANCIAL AND OTHER REQUIREMENTS

6.1 Financial Capability

SACC Manual Clause A9033T (2011-05-16) Financial Capability

6.2 Contract Financial Security – not used

6.3 Vessel Transfer Costs

Vessel Transfer Costs will not apply to the evaluation price of this solicitation. The vessel is permanently tied up at the HMCS Haida's Jetty, Pier 9, 658 Catharine St. N, Hamilton, ON L8L 8K4.

6.4 Docking Facility – not used

6.5 Workers' Compensation - Letter of Good Standing

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

6.6 Valid Labour Agreement

If the Bidder has a labour agreement, or other suitable instrument, in place with all its unionized labour, it must be valid for the proposed period of any resulting contract. Documentary evidence of the agreement or suitable instrument must be provided on or before bid closing date. If this information is not provided with the bid it will render the bid non-responsive.

Refer to Annex "J1" for Deliverables/Certifications

6.7 Preliminary Work Schedule

At the time of bid closing the Bidder must submit to Canada one (1) copy of its preliminary production work schedule. This schedule is to show the commencement and completion dates for the Work in the available work period, including realistic target dates for significant events. This schedule will be reviewed with the successful Bidder at the Pre-Refit Meeting.

The Contractor's Work schedule must include (as a minimum) target dates for each of the following significant events:

- a. Commencement of Work as defined at Article 7.3.1
- b. All priced work items listed in Annex H Appendix 1
- c. FSR Scheduling for Priced Work Items
- d. Completion of Work as defined at Article 7.3.1

Refer to Annex "J1", Deliverables/Certifications.

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6.8 Safety Measures for Fueling and Disembarking Fuel – not used

6.10 Health and Safety

The Bidder must submit with its bid objective evidence that it has a documented Health and Safety system fully compliant with all current Federal, Provincial and Municipal regulations. If this information is not provided with the bid it will render the bid non-responsive.

Refer to Annex "J1" for Deliverable Requirements.

6.11 Fire Protection, Fire Fighting and Training Procedures

The Bidder must submit with its bid objective evidence that it has documented fire protection, fire fighting and training procedures compliant with current regulations and their insurance requirements. The fire protection, fire fighting and training procedures will, once accepted by Canada, form part of the Contract. Please refer to clause 7.25. If this information is not provided with the bid it will render the bid non-responsive.

Refer to Annex "J1" for Deliverable Requirements.

6.12 Hazardous Waste

1. The Bidder acknowledges that sufficient information has been provided by Canada with respect to the location and estimated amount of hazardous materials such as asbestos, lead PCBs, silica or other hazardous materials or toxic substances.
2. The price includes all costs associated with the removal, handling, storage, disposal and/or working in the vicinity of hazardous materials such as asbestos, lead, PCBs, silica and other hazardous materials or toxic substances on board the vessel, including those costs resulting from the need to comply with applicable laws and regulations in relation to the removal, handling, disposal or storage of hazardous materials or toxic substances.
3. The completion date for the Work takes into account the fact that the removal, handling, storage, disposal and/or working in the vicinity of hazardous materials such as asbestos, lead, PCBs, silica and other hazardous materials or toxic substances may be affected by the need to comply with applicable federal, provincial and municipal laws or regulations and that this will not be considered to be an excusable delay.

6.13 Insurance Requirements

The Bidder must provide with its bid a letter from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as a result of the bid solicitation, can be insured in accordance with the Insurance Requirements specified in Annex "D". If this information is not provided with the bid it will render the bid non-responsive.

Refer to Annex "J1", Deliverables/Certifications.

6.14 Welding Certification

1. Welding must be performed by a welder certified by the Canadian Welding Bureau and in accordance with the requirements of the following Canadian Standards Association (CSA) standards:
 - (a) CSA W47.1, Certification for Companies for Fusion Welding of Steel (Minimum Division Level 1 or 2);

The bidder shall submit proof of certification with the bid. The certification shall remain valid for the duration of the contract. If this information is not provided with the bid it will render the bid non-responsive.

Refer to Annex " J1" for Deliverables/Certifications.

6.15 Project Management Services

The Bidder is required to provide a Project Management Team experienced and capable of successfully managing the ship refit contract as defined herein. Project management personnel, services and deliverables must comply with the requirements detailed in the contract.

1. Intent

(a) Job titles used in this annex are for clarity within this document only. The Contractor is free to choose job titles that suit its organization.

(b) The Contractor, through its Project Management Team, is responsible to discharge the duties and supply the deliverables required in the Contract and the Specifications.

(c) Project Management encompasses the direction and control of such functions as engineering, planning, purchasing, manufacturing, assembly, overhauls, installations and test and trials.

2. Project Manager

(a) The Contractor must supply an experienced Project Manager (PM).

(b) The PM must have experience in managing a project of this nature.

3. Project Management Team

Other than the Project Manager, the Contractor must assign and vary other job descriptions to suit its organization; provided however that the collective resume of its Project Management must provide for the effective control of the project elements including but not limited to:

- i. Project Management
- ii. Quality Assurance
- iii. Planning and Scheduling

4. Tender Deliverable

Names, brief resumes, and list of duties for each of the team members that ensures that each of the project elements listed in Article 3. above have been addressed.

5. Reports

The following Management Reports and Documentation are to be prepared and maintained by the Contractor and submitted to Canada in accordance with the Contract or upon request by the Contracting Authority.

- i. Production Work Schedule
- ii. Inspection Summary Report
- lii. Growth Work Summary

Refer to Annex "J1" for Deliverables/Certifications.

6.16 List of Proposed Subcontractors

If the bid includes the use of subcontractors, the Bidder shall provide a list of all subcontractors including a description of the things to be purchased, a description of the work to be performed by specification section and the location of the performance of that work. The list should not include the purchase of off-the-shelf items, software and such standard articles and materials as are ordinarily produced by manufacturers in the normal course of business, or the provision of such incidental services as might ordinarily be subcontracted in performing the Work, i.e. subcontract work valued at less than \$ 5,000.00 aggregate for the project.

Refer to Annex "J1" for Deliverables/Certifications.

6.17 Quality Control Plan

At the time of bid closing the Bidder must submit to Canada an example of its Quality Control Plan (QCP) as applied on previous projects of the same nature.

Refer to Annex "J1" for Deliverables/Certifications.

6.18 Inspection and Test Plan

At the time of bid closing the Bidder must submit to Canada an example of an Inspection and Test Plan (ITP) complete with requirement and inspection reports as developed on previous projects of the same nature.

Refer to Annex "J1" for Deliverables/Certifications.

6.19 Environmental Protection

At the time of bid closing the Bidder must submit details of its environmental emergency response plans, waste management procedures and/or formal environmental training undertaken by its employees.

Refer to Annex "J1" for Deliverables/Certifications.

PART 7 - RESULTING CONTRACT CLAUSES

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

7.1 Requirement

The Contractor must:

- a) To carry out the alongside refit, repair, and maintenance and alterations of the HMCS Haida – Heritage Vessel and National Historic Site in accordance with Annex A – Statement of Work, and any associated technical information. The work is to be carried out at the HMCS Haida's Jetty, Pier 9, 658 Catharine St. N, Hamilton, ON L8L 8K4
- b) carry out any unscheduled work authorized by the Contracting Authority.

7.2 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 issued by Public Works and Government Services Canada (PWGSC). The manual is available on the following PWGSC website:

(<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>)

7.2.1 General Conditions

2030 (2016-04-04), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

2030 (2016-04-04) General Conditions Higher Complexity - Goods are hereby amended as follows:

Section 22 Warranty

1. The Contractor, if requested by Canada, must replace or repair at its own expense any finished work, excluding Government Issue incorporated in the Work, which becomes defective or which fails to conform to contract requirements as a result of faulty or inefficient manufacture, material or workmanship.

2. Despite acceptance of the finished work, and without restricting any other term of the Contract or any condition, warranty or provision imposed by law, the Contractor warrants that the following will be free from all defects and will conform with the requirements of the Contract:
 - (a) The painting of the underwater portion of the hull for a period of 365 days commencing from the date of undocking, except that the Contractor will only be liable to repair and/or replace to a value to be determined as follows:

Original cost to Canada of the underwater painting work, divided by 365 days and multiplied by the number of days remaining in the warranty period. The resultant sum would represent the "Dollar Credit" due to Canada from the Contractor.
 - (b) All other painting work for a period of 365 days commencing from the date of acceptance of the Work;
 - (c) All other items of work for a period of ninety (90) days commencing from the date of acceptance of the Work, except that:
 - (i) the warranty on the work related to any system or equipment not immediately placed in continuous use or service will be for a period of ninety (90) days from the date of acceptance of the vessel;
 - (ii) for all outstanding defects, deviations, and work items listed on the Acceptance Document at Delivery, the warranty will be ninety (90) days from the subsequent date of acceptance for each item.
3. The Contractor agrees to pass to Canada, and exercise on behalf of Canada, all warranties on the materials supplied or held by the Contractor which exceed the periods indicated above.
4. Refer to Annex "E" and its Appendix "1" for Warranty Defect Claim Procedures and forms.

7.2.2 Supplemental General Conditions

1031-2 (2012-07-16), Contract Cost Principles, apply and form part of the Contract.

1029 (2010-08-16) Ship Repairs, apply and form part of the Contract.

7.3 Term of Contract

7.3.1 Work Period - Marine

1. Work must commence and be completed as follows:

Commence: October 8, 2018
Complete: November 16, 2018

2. The Contractor agrees that the above time (the "Work Period") provides an adequate period to perform the subject work and absorb a reasonable amount of unscheduled work. The Contractor certifies that they have sufficient material and human resources allocated or available to complete the subject work and a reasonable amount of unscheduled work within the Work Period.

Canada has the right to delay the arrival of the Vessel at the Contractor's facility subject to the following conditions:

- a) Canada gives 30 calendar days advance notice of a 15 day maximum delay.

The Contractor may claim no additional cost when arrival of the vessel at the Contractor's facility is delayed up to a maximum of 15 calendar days beyond the commencement date, above. The Completion Date shall be extended by a period equal to the length of the delay.

- b) Canada does not provide 30 calendar days advance notice of a delay.

The Completion Date shall be reasonably adjusted to reflect the impact of the delay on the arrival of the Vessel and Canada shall pay only the Daily Services Fee referred to in the Basis of Payment for the period of the delay.

7.3.2 Additional Instructions to Work Period

From refit start date of October 8 2018 to November 16, 2018 the vessel will be unmanned during the work period and will be considered to be out of commission. The vessel during that period will be in the care and custody of Parks Canada and under its control.

7.3.3 Time is of the Essence

Refer to SACC Manual Clause 2030 **(2016-04-04)**, sub-section 10, Time is of the Essence.

7.4 Authorities

7.4.1 Contracting Authority

The Contracting Authority for the Contract is:

Dan Byron
Department of Public Works and Government Services Canada (PWGSC)
Defence and Major Projects Sector
PWGSC, 6C2 Place du Portage, Phase III
11 Laurier Street,
Gatineau, Quebec, K1A 0S5
Tel: (819) 420-2898
E-Mail : dan.byron@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 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.

7.4.2 Technical Authority

The Technical Authority for the Contract is:

Name will be determined at Contract Award

Name: _____
Telephone: _____
Cell: _____
E-mail: _____

The Technical 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 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.

7.4.3 Inspection Authority

Name will be determined at Contract Award

Name: _____
Telephone: _____
Cell: _____
E-mail: _____

The Inspection Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for the inspection of the Work and acceptance of the finished work. The Inspection Authority may be represented on-site by a designated inspector and any other Government of Canada Inspector who may from time to time be assigned in support of the designated inspector.

7.5 Payment

7.5.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price indicated in the Basis of Payment Annex " B" for the Known Work. Applicable Taxes are extra, if applicable. Payment for unscheduled work shall be in accordance with Annex "B".

No increase in the total liability of Canada or in the price of the Work resulting from any design changes, modifications or interpretations of the Specifications, will be authorized or paid to the Contractor unless such design changes, modifications or interpretations have been authorized in writing, by the Contracting Authority prior to their incorporation in the Work.

7.5.2 Terms of Payment - Progress Payment

1. Canada will make progress payments in accordance with the payment provisions of the Contract, no more than once a month, for cost incurred in the performance of the Work, up to 90 percent of the amount claimed and approved by Canada if:
 - (a) an accurate and complete claim for payment using form PWGSC-TPSGC 1111 <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>, 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) the amount claimed is in accordance with the basis of payment;
 - (c) the total amount for all progress payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Contract;

- (d) all certificates appearing on form PWGSC-TPSGC 1111 have been signed by the respective authorized representatives.
2. The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of all work required under the Contract if the Work has been accepted by Canada and a final claim for the payment is submitted.
3. Progress payments are interim payments only. Canada may conduct a government audit and interim time and cost verifications and reserves the rights to make adjustments to the Contract from time to time during the performance of the Work. Any overpayment resulting from progress payments or otherwise must be refunded promptly to Canada.

7.5.3 Liens - Section 427 of the Bank Act

SACC Manual Clause H4500C (2010-01-11) Liens - Section 427 of the Bank Act

7.5.4 Limitation of Price

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

7.5.5 Time Verification

SACC Manual Clause C0711C (2008-05-12) Time Verification

7.6 Invoicing Instructions

The Contractor must submit invoices in accordance with the information required in Section 13 of 2030 **(2016-04-04)**, General Conditions, Higher Complexity, Goods, Article 7.5 Payment and Article 7.6 Invoicing Instructions.

7.6.1 Invoices

1. Invoices are to be made out to:

Parks Canada
30, Victoria St. (PC-05-K), 5-85,
Gatineau QC J8X 0B3

Attention: Annie Campeau

And;

The original invoice to be forwarded for verification to:

Public Works and Government Services Canada
Marine Systems Directorate
Ship Refit Division
6C2 Place du Portage, Phase III
11 Laurier Street
Gatineau, Quebec K1A 0S5
Attention: Dan Byron

2. Canada will only make payment upon receipt of a satisfactory invoice duly supported by specified release documents and any other documents called for under the Contract.
3. The Contractor shall not submit an invoice prior to the completion and acceptance of the Work or shipment of the items to which it relates.

7.6.2 Invoicing Instructions - Progress Claim

1. The Contractor must submit a claim for payment using form PWGSC-TPSGC 1111 <http://www.tpsgc-pwgsc.gc.ca/app-acq/forms/documents/1111.pdf>, Claim for Progress Payment.

Each claim must show:

- (a) all information required on form PWGSC-TPSGC 1111;
 - (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
2. Applicable Taxes must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no Applicable Taxes payable as it was claimed and payable under the previous claims for progress payments.
 3. The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-TPSGC 1111, and forward it to the Contracting Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

The Contracting Authority will then forward the original and two (2) copies of the claim to the Contracting Authority for certification and onward submission to the Payment Office for the remaining certification and payment action.

4. The Contractor must not submit claims until all work identified in the claim is completed.

7.6.3 Warranty Holdback

A warranty holdback of 5% of the total contract price as last amended (Applicable Taxes excluded) will be applied to the final claim for payment. This holdback will be payable by Canada upon the expiry of the 90 day warranty period(s) applicable to the Work. Applicable Taxes, as appropriate, is to be calculated and paid on the total amount of the claim before the 5% holdback is applied. At the time that the holdback is released, there will be no Applicable Taxes payable, as it was included in previous payments.

7.7 Certifications

7.7.1 Compliance

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

7.8 Federal Contractors Program for Employment Equity - Default by the Contractor

The Contractor understands and agrees that, when an Agreement to Implement Employment Equity (AIEE) exists between the Contractor and Employment and Social Development Canada (ESDC)-Labour, the AIEE must remain valid during the entire period of the Contract. If the AIEE becomes invalid, the name of the Contractor will be added to the "FCP Limited Eligibility to Bid" list. The imposition of such a sanction by ESDC will constitute the Contractor in default as per the terms of the Contract.

7.9 Applicable Laws

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

7.10 Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the Supplemental General Conditions 1029, (2010-08-16), Ship Repairs;
- (c) the General Conditions 2030, (2016-04-04) , General Conditions - Higher Complexity - Goods
- (d) the General Conditions 1031-2, (2012-07-16), Contract Cost Principles;
- (e) Annex "A", Statement of Work;
- (f) Annex "B", Basis of Payment;
- (g) Annex "C", Federal Contractors Program for Employment Equity - Certification;
- (h) Annex "D", Insurance Requirements;
- (i) Annex "E", Warranty;
- (j) Annex "F", Procedure for Unscheduled Work;
- (k) Annex "G", Quality Control/Inspection;
- (l) Annex "H", Financial Bid Presentation Sheet;
- (m) Annex "I", Vessel Turnover – **not used**
- (n) Annex "J", Deliverables/Certifications
- (o) the Contractor's bid dated _____ (insert date of bid),

7.11 Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex "D". The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfil its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within **ten (10) working days** after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. Coverage must be placed with an Insurer licensed to carry out business in Canada. The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

7.12 Limitation of Contractor's Liability for Damages to Canada

1. This section applies despite any other provision of the Contract and replaces the section of the general conditions entitled "Liability". Any reference in this section to damages caused by the Contractor also includes damages caused by its employees, as well as its subcontractors, agents, and representatives, and any of their employees.

2. Whether the claim is based in contract, tort, or another cause of action, the Contractor's liability for all damages suffered by Canada caused by the Contractor's performance of or failure to perform the Contract is limited to \$10 million per incident or occurrence to an annual aggregate of \$20 million for losses or damage caused in any one year of carrying out the Contract, each year starting on the date of coming into force of the Contract or its anniversary. This limitation of the Contractor's liability does not apply to nor include:

(a) Any infringement of intellectual property rights;

(b) Any breach of warranty obligations;

(c) Any liability of Canada to a third party arising from any act or omission of the Contractor in performing the Contract; or

(d) Any loss for which the policies of insurance specified in the Contract or any other policies of insurance held by the Contractor would provide insurance coverage.

3. Each Party agrees that it is fully liable for any damages that it causes to any third party in connection with the Contract, regardless of whether the third party makes its claim against Canada or the Contractor. If Canada is required, as a result of joint and several liability, to pay a third party in respect of damages caused by the Contractor, the Contractor must reimburse Canada for that amount.

4. The Parties agree that nothing herein is intended to limit any insurable interest of the Contractor nor to limit the amounts otherwise recoverable under any insurance policy. The Parties agree that to the extent that the insurance coverage required to be maintained by the Contractor under this Contract or any additional insurance coverage maintained by the Contractor, whichever is greater, is more than the limitations of liability described in sub article (2), the limitations provided herein are increased accordingly and the Contractor shall be liable for the higher amount to the full extent of the insurance proceeds recovered.

5. If, at any time, the total cumulative liability of the Contractor for losses or damage suffered by Canada caused by the Contractor's performance of or failure to perform the Contract, excluding liability described under subsection 2(a), (b), (c) and (d) exceeds \$40 million, either Party may terminate the Contract by giving notice in writing to the other Party and neither Party will make any claim against the other for damages, costs, expected profits or any other such loss arising out of the termination. However, no such termination or expiry of the Contract shall reduce or terminate any of the liabilities that have accrued to the effective date of the termination but which liabilities are subject to the limitations as specified in sub-article (1) through (4) above.

6. The date of termination pursuant to this Article, shall be the date specified by Canada in its notice to terminate, or, if the Contractor exercises the right to terminate, in a notice to the Contractor from Canada in response to the Contractor's notice to terminate. The date of termination shall be in Canada's discretion to a maximum of 12 months after service of the original notice to terminate served by either Party pursuant to sub-article 5, above.

7. Nothing shall limit Canada's other remedies, including Canada's right to terminate the Contract for default for breach by the Contractor of any of its obligations under this Contract, notwithstanding that the Contractor may have reached any limitation of its liability hereunder.

7.13 Financial Security – not used

7.14 Sub-contracts and Sub-contractor List

The Contracting Authority is to be notified, in writing, of any changes to the list of subcontractors before commencing the work.

When the Contractor sub-contracts work, a copy of the sub-contract purchase order is to be passed to the Contracting Authority. In addition, the Contractor must monitor progress of sub-contracted work and inform the Inspection Authority on pertinent stages of work to permit inspection when considered necessary by the Inspection Authority.

7.15 Work Schedule and Reports

No later than **five (5) calendar days** after contract award, the preliminary work schedule provided with the bid must be revised, detailed and resubmitted in preparation to the contract award meeting.

The Contractor must provide a detailed work schedule showing the commencement and completion dates for the Work in the available work period, including realistic target dates for significant events.

During the work period the schedule is to be reviewed on an ongoing basis by the Inspection Authority and the Contractor, updated when necessary, and available in the Contractor's office for review by Canada's authorities to determine the progress of the Work.

7.16 Insulation Materials - Asbestos Free

All materials used to insulate or re-insulate any surfaces on board the vessel must meet Transport Canada Marine standards, for commercial marine work, and, for all work, be free from asbestos in any form. The Contractor must ensure that all machinery and equipment located below or adjacent to surfaces to be re-insulated are adequately covered and protected before removing existing insulation.

7.17 Trade Qualifications

The Contractor must use qualified, certificated (if applicable) and competent tradespeople and supervision to ensure a uniform high level of workmanship. The Technical Authority may request to view and record details of the certification and/or qualifications held by the Contractor's tradespeople. This request should not be unduly exercised but only to ensure qualified tradespeople are on the job.

7.18 ISO 9001:2008 - Quality Management Systems

In the performance of the Work described in the Contract, the Contractor must comply with the requirements of:

ISO 9001:2008 - Quality management systems - Requirements, published by the International Organization for Standardization (ISO), current edition at date of submission of Contractor's bid.

The Contractor's quality management system must address each requirement contained in the standard, however, the Contractor is not required to be registered to the applicable standard.

7.19 Project Management Services

The Contractor is required to provide their own Project Management Team experienced and capable of successfully managing the ship repair contract as defined herein. Project management personnel, services and deliverables must comply with the requirements detailed in the contract.

1. Intent

(a) Job titles used in this annex are for clarity within this document only. The Contractor is free to choose job titles that suit its organization.

(b) The Contractor, through its Project Management Team, is responsible to discharge the duties and supply the deliverables required in the Contract and the Specifications.

(c) Project Management encompasses the direction and control of such functions as engineering, planning, purchasing, manufacturing, assembly, overhauls, installations and test and trials.

2. Project Manager

(a) The Contractor must supply an experienced Project Manager (PM).

(b) The PM must have experience in managing a project of this nature.

3. Project Management Team

Other than the Project Manager, the Contractor must assign and vary other job descriptions to suit its organization; provided however that the collective resume of its Project Management must provide for the effective control of the project elements including but not limited to:

- i. Project Management
- ii. Quality Assurance
- iii. Planning and Scheduling

4. Reports

The following Management Reports and Documentation are to be prepared and maintained by the Contractor and submitted to Canada in accordance with the Contract or upon request by the Contracting Authority.

- i. Production Work Schedule
- ii. Inspection Summary Report
- lii. Growth Work Summary

7.20 Quality Control Plan

The Contractor must implement and follow the Quality Control Plan (QCP) prepared according to the latest issue (at contract date) of ISO 10005:2005 Quality management - Guidelines for quality plans, approved by the Inspection and the Technical Authority. The QCP must describe how the Contractor will conform to the specified quality requirements of the Contract and specify how the required quality activities are to be carried out, including quality assurance of subcontractors. The Contractor must include a traceability matrix from the elements of the specified quality requirements to the corresponding paragraphs in the QCP. The QCP must be made available to the Inspection and Technical Authority for review and approval **within five (5) calendar days** after contract award.

The documents referenced in the QCP must be made available when requested by the Inspection Authority.

The Contractor must make appropriate amendments to the QCP throughout the term of the Contract to reflect current and planned quality activities. Amendments to the QCP must be acceptable to the Inspection Authority and the Technical Authority.

Refer to Annex "G" for details.

7.21 Inspection and Test Plan

The Contractor must in support of its Quality Control Plan (QCP), implement an approved Inspection and Test Plan (ITP).

The Contractor must provide at no additional cost to Canada, all applicable test data, all Contractor technical data, test pieces and samples as may reasonably be required by the Inspection Authority to verify conformance to contract requirements. The Contractor must forward at his expense such technical data, test data, test pieces and samples to such location as the Inspection Authority may direct.

Refer to Annex "G" for details.

7.22 Equipment/Systems: Inspection/Test

Inspections, Tests and Trials of Equipment, Machinery and Systems shall be conducted in accordance with the Specification. The Contractor is responsible for performing, or having performed, all Inspections, Tests and Trials necessary to substantiate that the materiel and services provided conform to contract requirements.

Refer to Annex "G" for details.

7.23 Environmental Protection

The Contractor and its sub-contractors engaged in the Work on a Crown vessel must carry out the Work in compliance with applicable municipal, provincial and federal environmental laws, regulations and industry standards.

The Contractor must have detailed procedures and processes for identifying, removing, tracking, storing, transporting and disposing of all potential pollutants and hazardous material encountered, to ensure compliance as required above. The contractor must maintain in force their Environmental Protection procedures through the course of the contract.

All waste disposal certificates are to be provided to the Technical Authority, with information copies sent to the Contracting Authority. Furthermore, additional evidence of compliance with municipal, provincial and federal environmental laws and regulations is to be furnished by the Contractor to the Contracting Authority when so requested.

The Contractor must have environmental emergency response plans and/or procedures in place. Contractor and subcontractor employees must have received the appropriate training in emergency preparedness and response. Contractor personnel engaging in activities which may cause environmental impacts or potential non compliance situations, must be competent to do so on the basis of appropriate education, training, or experience.

7.24 Hazardous Waste

1. The Contractor acknowledges that sufficient information has been provided by Canada with respect to the location and estimated amount of hazardous materials such as asbestos, lead PCBs, silica or other hazardous materials or toxic substances.
2. The price includes all costs associated with the removal, handling, storage, disposal and/or working in the vicinity of hazardous materials such as asbestos, lead, PCBs, silica and other hazardous materials or toxic substances on board the vessel, including those costs resulting from the need to comply with applicable laws and regulations in relation to the removal, handling, disposal or storage of hazardous materials or toxic substances.
3. The completion date for the Work takes into account the fact that the removal, handling, storage, disposal and/or working in the vicinity of hazardous materials such as asbestos, lead, PCBs, silica and other hazardous materials or toxic substances may be affected by the need to comply with applicable federal, provincial and municipal laws or regulations and that this will not be considered to be an excusable delay.

7.25 Supervision of Fueling and Disembarking Fuel (not used)

7.26 Fire Protection, Fire Fighting and Training

The Contractor must maintain in force their fire protection, fire fighting and training procedures through the course of the Contract.

7.27 Loan of Equipment - Marine

The Contractor may apply for the loan of the Government special tools and test equipment particular to the subject vessel as identified in the Specifications. The provision of other equipment required for the execution of work in the Specifications is the sole responsibility of the Contractor.

Equipment loaned under this provision must be used only for work under this Contract and may be subject to demurrage charges if not returned on the date required by Canada. In addition, equipment loaned under the above provision must be returned in a like condition, subject to normal wear and tear.

A list of Government equipment that the Contractor intends to request must be submitted to the Contracting Authority within **three (3) days** of Contract Award to permit timely supply or for alternate arrangements to be made. The request must state the time frame for which the equipment is required.

Refer to Annex "J2" for Deliverables/Certifications.

7.28 Welding Certification

1. The Contractor must ensure that welding is performed by a welder certified by the Canadian Welding Bureau (CWB) in accordance with the requirements of the following Canadian Standards Association (CSA) standards:

(a) CSA W47.1, Certification for Companies for Fusion Welding of Steel (Minimum Division Level 1 or 2);

2. In addition, welding must be done in accordance with the requirements of the applicable drawings and specifications.

3. Before the commencement of any fabrication work, and upon request from the Technical Authority, the Contractor must provide approved welding procedures and/or a list of welding personnel intended to be used in the completion of the work. The list must identify the CWB welding procedure qualifications attained by each of the personnel listed and must be accompanied by a copy of each person's current CWB welding certification.

7.29 Procedures for Design Change or Additional Work

SACC Manual Clause B5007C (2010-01-11) Procedures for Design Change or Additional Work

In addition, refer to Annex "F".

7.30 Vessel Manned Refits

SACC Manual Clause A0032C (2010-08-16) Vessel Manned Refits

Refer to Annex "I" for details.

7.31 Pre-Refit Meeting

A Pre-Refit meeting will be convened and chaired by the Contracting Authority at a time and- location to be determined- At that meeting the contractor will introduce all its management personnel as per its organization chart, and Canada will introduce authorities. Details of ship's arrival and work commencement will be discussed.

7.32 Progress Meetings

Progress meetings, chaired by the Contracting Authority, will take place at a time and location to be determined as and when required, generally once a month. Interim meetings may also be scheduled. Contractor attendees at these meetings will, as a minimum, be its Contract (Project) Manager, Production Manager (Superintendent) and Quality Assurance Manager. Progress meetings will generally incorporate Technical meetings to be chaired by the Technical Authority.

7.33 Outstanding Work and Acceptance

1. The Inspection Authority, in conjunction with the Contractor, will prepare a list of outstanding work items at the end of the work period. This list will form the annexes to the formal acceptance document for the vessel. A contract completion meeting will be convened by the Inspection Authority on the work completion date to review and sign off the form PWGSC-TPSGC1205, Acceptance. In addition to any amount held under the Warranty Holdback Clause, a holdback of twice the estimated value of outstanding work will be held until that work is completed.
2. The Contractor must complete the above form in three (3) copies, which will be distributed by the Inspection Authority as follows:
 - (a) original to the Contracting Authority;
 - (b) one copy to the Technical Authority;
 - (c) one copy to the Contractor.

Refer to Annex "I" for details of Acceptance Procedures and Reports.

7.34 Scrap and Waste Material

Despite any other provision of the Contract, scrap and waste materials other than accountable material, derived from the Contract, will revert to the Contractor as part of the Contract Price.

7.35 Stability

The Contractor will be solely responsible for the stability and trim of the ship during the period the vessel is in the Contractor's facility, including docking and undocking. The Contractor must maintain weight change information pertinent to the vessel's stability during the docking period. The Technical Authority will supply the Contractor with cross curves of stability, hydrostatic curves, tank status, location of centre of gravity, and other information relevant to the ship's condition upon handing over of the vessel.

7.36 Vessel Access by Canada

Canada reserves the right to have its personnel carry out limited work on equipment on board the vessel. This work will be carried out at times mutually acceptable to Canada and the Contractor.

7.37 Title to Property - Vessel

If the Contractor is in default in carrying any of its obligations under the Contract, Canada, or its agents, will have the immediate right to enter the shipyard, without first obtaining a court order, to take possession of the vessel and all other property of Canada, including, but not limited to, work-in-process located on the premises, and to perform any further work required to enable the vessel and other such property to be removed from the shipyard.

7.38 Workers Compensation

The Contractor must maintain its account in good standing with the applicable provincial or territorial Workers' Compensation Board for the duration of the Contract.

7.39 Dispute Resolution

The parties agree to follow the procedures below for the settlement of any disputes which may arise throughout the life of this Contract prior to seeking redress through court procedures:

- (a) Disputes arising from this Contract will in the first instance be resolved by the Contracting Authority and the Contractor's Contract Administrator within 15 working days or such additional time as may be agreed to by both parties.
- (b) Failing resolution under (a) above, the Manager of the Ship Refit Division (MD) of the Marine Systems Directorate at PWGSC and the Contractor's Representative Supervisor will attempt to resolve the dispute within an additional fifteen (15) working days.
- (c) Failing resolution under (a) or (b) above, the Senior Director of the Marine Systems Directorate at PWGSC, and the Contractor's Senior Management will attempt to resolve the dispute within an additional thirty (30) working days.
- (d) Notwithstanding the above procedure, either party may seek a decision through the courts at any time during the dispute.

7.40 Failure to Deliver

Changes in the Completion date not caused by Canada are Contractor defaults, will prejudice Canada and are at the Contractor's expense. The Completion date will not be extended without consideration being provided by the Contractor acceptable to Canada in the form of adjustment to the price, warranty or services to be provided.

7.41 Care, Custody and Control

Refer to Annex "I" and Supplemental General Conditions 1029 (2010-08-16) Ship Repairs Article 09 Where Vessel Out of Commission.

7.42 Permits, Licenses and Certificates

The Contractor must obtain and maintain all permits, licenses and certificates of approval required for the work to be performed under any applicable federal, provincial or municipal legislation. The Contractor is responsible for any charges imposed by such legislation or regulations. Upon request, the Contractor must provide a copy of any such permit, license or certificate to Canada.

Solicitation No. - N° de l'invitation
5P300180111
Client Ref. No. - N° de réf. du client
5P300180111

Amd. No. - N° de la modif.
File No. - N° du dossier
021md5P300180111

Buyer ID - Id de l'acheteur
021md
CCC No./N° CCC - FMS No./N° VME

ANNEX A

STATEMENTS OF WORK - SPECIFICATIONS

ANNEX B - BASIS OF PAYMENT

Annex B will form the Basis of Payment for the resulting Contract and should not be filled in at the bid submission stage.

B1 Contract Firm Price

A)	Known Work For work as stated in PART 7 - article 7.1, specified in Annex A and detailed in the attached Annex H – Appendix 1 - Pricing Data Sheet for the FIRM PRICE of:	\$
B)	Applicable taxes of line A) only:	\$
C)	Cost of Financial Security as per 7.13	\$ NOT USED
D)	Total firm Price including Applicable Taxes [A+B]	\$

B2 Unscheduled Work

The Contractor will be paid for unscheduled work arising, as authorized by Canada. The authorized unscheduled work will be calculated as follows:

"Number of hours (to be negotiated) X \$ _____, being the Contractor's firm hourly charge-out labour rate which includes overhead, consumables, and profit, plus net laid-down cost of materials to which will be added a mark-up of 10%, plus applicable taxes, of the total cost of material and labour. The firm hourly charge-out labour rate and the material mark-up will remain firm for the duration of the Contract and any subsequent amendments."

B2.1: Notwithstanding definitions or usage elsewhere in this document, or in the Contractor's Cost Management System, when negotiating hours for unscheduled work, PWGSC will consider only those hours of labour directly involved in the production of the subject work package.

Elements of Related Labour Costs identified in this section B2.2 below, will not be negotiated, but will be compensated for in accordance with B2.2.

B2.2: Allowance for Related Labour Costs such as: Management, all Supervision, Purchasing and Material Handling, Quality Assurance and Reporting, First Aid, Gas Free Certification Inspecting and Reporting, Estimating, and Preparing Unscheduled Work Submissions will be included as Overhead for the purposes of determining the Charge-out Labour Rate entered in line B2 above.

B2.3: The 10% mark-up rate for materials will also apply to subcontracted costs. The mark-up rate includes any allowance for material and subcontract management not allowed for in the Charge-out Labour Rate. The Contractor will not be entitled to a separate labour component for the purchase and handling of materials or subcontract administration.

Pro-rated Prices Unscheduled Work

Hours and prices for unscheduled work shall be based on comparable historical data applicable to similar work at the same facility, or shall be determined by pro-rating the quoted Work costs in the Contract when in similar areas of the vessel.

B3 Overtime

The Contractor must not perform any overtime under the Contract unless authorized in advance and in writing by the Contracting Authority. There will be no overtime payment for Known Work. Any request for payment must be accompanied by a copy of the overtime authorization and a report containing the overtime performed pursuant to the written authorization. Payment for authorized overtime will be calculated as follows:

For unscheduled work, the Contractor will be paid the authorized overtime hours at the following charge-out labour rates:

a. Time and One Half**: \$_____ per hour

b. Double Time***: \$_____ per hour

This rate shall be a blended rate for all classes of labour, engineering and foreperson and shall include all overheads, supervision and profit.

These rates will remain firm for the duration of the Contract, including all amendments and are subject to audit if considered necessary by Canada.

* Regular time is defined as an 8 hour work day.

** Time and One Half is defined as time in excess of the Regular Time*.

*** Double Time is defined as Sundays and Statutory Holidays.

B4 Daily Services Fee

In the event of a delay in the performance of the Work that lengthens the Work period beyond the date specified in this Contract, and if such delay is recognized and agreed upon by the Contracting Authority as being

attributable to Canada, Canada agrees to pay the Contractor the daily services fee, described below, for each day of such delay. This fee shall be the sole liability of Canada to the Contractor for the delay.

The firm daily services fee is:

a. For a Working Day: \$_____

b. For a Non-Working Day: \$_____

The above fees shall include but not be limited to, all aspects of the following costs: Project Management Services, Administrative Support, Production Services, Quality Assurance, Material Support, Planned Maintenance and Ship Services, and all other resources and direct costs needed to maintain the Vessel at the Contractor's facility. These fees are firm and not subject to any additional charges for mark-up or profit.

B5 Vessel, Refit, Repair or Docking Cost

The following costs must be included in the price:

B5.1: Ship Services: include all costs for ship services such as water, steam, electricity, etc., required for vessel maintenance for the duration of the Contract.

B5.2: Docking and Undocking include:

- a. all costs resulting from dry docking, wharfage, security, shoring, shifting and/or moving of the vessel within the successful Bidder's facility;
- b. the cost of services to tie up the vessel alongside and to cast off.

Unless specified otherwise, the vessel will be delivered by Canada to the successful Bidder's facility alongside a mutually agreed safe transfer point, afloat and upright, and the successful Bidder will do the same when the Work is completed. The cost of services to tie up the vessel alongside and to cast

off must be included in the evaluation price.

B5.3: Field Service Representatives/Supervisory Services: include all costs for field service Representatives / supervisory services including manufacturers' representatives, engineers, etc. The Contractor is responsible for the performance of all subcontractors and FSRs.

These services must not be an extra charge except where unscheduled work requiring these services is added to the Contract.

B5.4: Removals: include all costs for removals necessary to carry out the Work and will be the responsibility of the successful Bidder whether or not they are identified in the specifications, except those removals not apparent when viewing the vessel or examining the drawings. The successful Bidder will also be responsible for safe storage of removed items and reinstalling them on completion of the Work. The successful Bidder will be responsible for renewal of components damaged during removal.

B5.5: Sheltering, Staging, Cranage and Transportation: include the cost of all sheltering, staging including handrails, cranage and transportation to carry out the Work as specified.

The Contractor will be responsible for the cost of any necessary modification of these facilities to meet applicable safety regulations.

B6 Pricing Data Sheets

Parameters from the Pricing Data Sheets will be used at Canada's sole discretion in the determination of unscheduled work price.

ANNEX C to PART 5 - BID SOLICITATION

FEDERAL CONTRACTORS PROGRAM FOR EMPLOYMENT EQUITY – CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with any request or requirement imposed by Canada may render the bid non-responsive or constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit Employment and Social Development Canada (ESDC) – Labour's website
(http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page).

Date: _____(YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).

A5. The Bidder has a combined workforce in Canada of 100 or more employees; and

- A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC-Labour.
- OR
- A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

- B1. The Bidder is not a Joint Venture.

OR

- B2. The Bidder is a Joint venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

ANNEX D - INSURANCE REQUIREMENTS

D1. Ship Repairers' Liability Insurance

1. The Contractor must obtain Ship Repairer's Liability Insurance and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$10,000,000 per accident or occurrence and in the annual aggregate.
2. The Ship Repairer's Liability insurance must include the following:
 - a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada as additional insured should read as follows: Canada, represented by Public Works and Government Services Canada.
 - b. Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Environment Canada and Public Works and Government Services Canada for any and all loss of or damage to the vessel, however caused.
 - c. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.
 - d. Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - e. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

D2. Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$10,000,000 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability Insurance policy must include the following:
 - a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
 - b. Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - c. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
 - d. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - e. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - f. Employees and, if applicable, Volunteers must be included as Additional Insured.
 - g. Employers' Liability (or confirmation that all employees are covered by Worker's Compensation (WSIB) or a similar program)

- h. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority with thirty (30) days written notice of policy cancellation.
- i. If the policy is written on a claims-made basis, coverage must be in place for a period of at least twelve (12) months after the completion or termination of the Contract. Employees and, if applicable, Volunteers must be included as Additional Insured.
- j. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- k. Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.

ANNEX E – WARRANTY

Warranty Procedures

E1. Scope

- a. The following are the procedures that suit the particular requirements for warranty considerations for a vessel on completion of a refit.

E2. Reporting Failures with Warranty Potential

- a. The initial purpose of a report of a failure is to facilitate the decision as to whether or not to involve warranty and to generate action to effect repairs. Therefore in addition to identification, location data, etc. the report must contain details of the defect. Warranty decisions as a general rule are to be made locally and the administrative process is to be in accordance with procedures as indicated.
- b. These procedures are necessary as invoking a warranty does not simply mean that the warrantor will automatically proceed with repairs at his expense. A review of the defect may well result in a disclaimer of responsibility, therefore, it is imperative that during such a review the Department is directly represented by competent technical authority qualified to agree or disagree with the warrantor's assertions. Since the INSPECTION AUTHORITY has the closest and most active involvement of the contracted work completed this agency must assume this role.

E3. Procedures

- a. Immediately it becomes known to the Ship's Staff that an equipment/system is performing below accepted standards or has become defective, the procedures for the investigation and reporting are as follows:
 - i. The vessel advises the Technical Authority when a defect, which is considered to be directly associated the refit work, has occurred.
 - ii. On review of the Specification and the Acceptance Document, the Technical Authority in consort with Ship's Staff is to complete the Tombstone Data and section 1 of the Appendix 1 – Warranty Claim Form Annex D and forward the original to the Contractor for review with a copy to the PWGSC contracting Authority. If the PWGSC Contracting or INSPECTION AUTHORITY is unable to support warranty action, the Defect Claim Form will be returned to the originator with a brief justification. (It is to be noted that in the latter instance PWGSC will inform the Contractor of its decision and no further action will be required of the Contractor.

Warranty defect claims may be forwarded in hard copy, by fax or by e-mail whichever format is the most convenient.

- iii. Assuming the Contractor accepts full responsibility for repair, the Contractor completes Section 2 and 3 of the Warranty Claim Form, returns it to the INSPECTION AUTHORITY who confirms corrective action has been completed, and who then distributes the form to the Technical Authority and the PWGSC Contracting Authority.
- b. In the event that the Contractor disputes the claim as a warranty defect, or agrees to share, the Contractor is to complete Part 2 and 3 of the Warranty Claim Form with the appropriate information and forward it to the Contracting Authority who will distribute copies as necessary.
- c. When a warranty defect claim is disputed by the Contractor, the Technical Authority may arrange to correct the defect by in-house resources or by contracting the work out. All associated costs must be tracked and recorded as a possible charge against the contractor by PWGSC action. Material costs and manhours expended in correcting

the defect are to be recorded and entered in Section 5 of the warranty defect claim by the Technical Authority who will forward the warranty defect claim to the PWGSC Contracting Authority for action. Defective parts of equipment are to be retained pending settlement of claim.

d. Defective equipment associated with potential warranty should not normally be dismantled until the Contractor's representative has had the opportunity to observe the defect. The necessary work is to be undertaken through normal repair methods and costs must be segregated as a possible charge against a contractor by PWGSC action.

E4. Liability

a. Agreement between the Contracting Authority, INSPECTION AUTHORITY, Technical Authority and the Contractor will result in one of the following conditions:

- i. The Contractor accepts full responsibility for costs to repair or overhaul under the warranty provisions of the contract;
- ii. The Technical Authority accepts full responsibility for repair and overhaul of item concerned; or
- iii. The Contractor and the Technical Authority agree to share responsibility for the costs to repair or overhaul the unserviceable item, in such cases the PWGSC Contracting Authority will negotiate the best possible sharing arrangement.

b. In the event of a disagreement as in paragraph 5c, PWGSC will take necessary action with the Contractor while the Technical Authority informs its Senior Management including pertinent data and recommendations.

c. The total cost of processing warranty claims must include accommodation and travel costs of the Contractor's employees as well as equipment/system down time and operational constraints. Accordingly, the cost to remediate the defect, in manhours and material, will be discussed between the Contracting/Inspection Authorities and the Technical Authority to determine the best course of action.

E5. Alongside Period For Warranty Repairs and Checks

a. If at all possible, an alongside period for the vessel is to be arranged just before the expiration of the 90 day warranty period. This alongside period is to provide time for warranty repair and check by the contractor.

b. In respect to the underwater paint, should it become defective during the associated warranty period the contractor is only liable to repair to a value determined as follows:

"Original cost to Canada for painting and preservation of the underwater section of the hull, divided by 365 days and multiplied by the number of days remaining in the 365 days warranty period. The resultant would represent the 'Dollar Credit' due to Canada from the Contractor."

c. The Underwater paint system, before expiration of the warranty, should be checked by divers. The Technical Authority is to arrange the inspection and ensure that a representative of the Contractor will attend. The Technical Authority will inform the Contracting Authority of any adverse results.

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2. Contractor's Investigative Report – Le rapport investigateur de l'entrepreneur	
3. Contractor's Corrective Action – La modalité de reprise de l'entrepreneur	
_____	_____
Contractor name and signature – Nom et signature de l'entrepreneur	Date of corrective action – Date de mesures correctives
_____	_____
Client name and signature – Nom et signature de client	Date - Date
4. PWGSC Review of Warranty Claim Action – Examen d'action de réclamation de garantie par TPSGC	
_____	_____
Signature – Signature	Date - Date
5. Additional Information – Renseignements supplémentaires	

PWGSC - TPSGC



ANNEX F – PROCEDURE FOR UNSCHEDULED WORK

F1. Purpose

The unscheduled work Procedure has been instituted for the following purposes:

- a. To establish a uniform method of dealing with requests for unscheduled work;
- b. To obtain the necessary Technical Authority approval and Contracting Authority authorization before unscheduled work commences;
- c. To provide a means of maintaining a record of unscheduled work requirements including serial numbers, dates and accumulated cost. The Contractor shall have a cost accounting system that is capable of assigning job numbers for each unscheduled work requirement so that each requirement can be audited individually.

F2. Definitions

- a. An unscheduled work Procedure is a contractual procedure whereby changes to the scope of work under the Contract may be defined, priced and contractually agreed to. Such changes may arise from:
 - i. "Work Arising" from opening up of machinery and/or surveys of equipment and material,
OR
 - ii. "New Work" not initially specified but required on the Vessel.
- b. The procedure does not allow for the correction of deficiencies in the Contractor's Bid.
- c. No unscheduled work may be undertaken by the Contractor without written authorization by the Contracting Authority, except under emergency circumstances as described in sub paragraph 3(b) unscheduled work.
- d. Work undertaken without written Contracting Authority authorization will be considered the Contractor's responsibility and cost.
- e. The appropriate PWGSC form is the final summary of the definition of the unscheduled work requirement, and the costs negotiated and agreed to.

F3. Procedures

- a. The procedure involves the electronic form PWGSC 1379 for refit and repair and will be the only form for authorizing all unscheduled work.
- b. Emergency measures required to prevent loss or damage to the Vessel which would occur if this procedure were followed, shall be taken by the Contractor on its own authority. The responsibility for the cost of such measures shall be determined in accordance with the terms and conditions of the Contract.
- c. The Technical Authority will initiate a work estimate request by defining the unscheduled work requirement. It will attach drawings, sketches, additional specifications, other clarifying details as appropriate, and allocate their serial number for the request.
- d. Notwithstanding the foregoing, the Contractor may propose to the technical Authority in writing either by letter or some type of Defect Advice Form (A Contractor owned form) that certain unscheduled work should be carried out.
- e. The Technical Authority will either reject or accept such proposal and advise the Contractor and Contracting Authority. Acceptance of the proposal is not to be construed as authorization for the work

to proceed. If required, the Technical Authority will then define the unscheduled work requirement in accordance with sub paragraph 3(c).

- f. The Contractor will electronically submit its proposal to the Contracting Authority together with all price support and any qualifications, remarks or other information as requested. The price support shall demonstrate the relationship between the scope of work, the Contractor's estimated costs and its selling price. It is a breakdown of the Contractor's unit rates, estimates of person hours by trade, estimate of material cost per item for both the Contractor and all of its subcontractors including quotations, estimates and any related schedule impact and an evaluation of the Contractor's time required to perform the unscheduled work.
- g. The Contractor shall provide copies of purchase orders and paid invoices for subcontracts and/or material, including stocked items. The Contractor shall provide a minimum of two quotations for subcontracts or material. If other than the lowest or sole source is being recommended for quality and/or delivery considerations, this shall be noted. Upon request by the Contractor, the Contracting Authority shall be permitted to meet with any proposed subcontractor or material supplier for discussion of the price, and always with the Contractor's representative present.
- h. After discussion between the Contracting Authority and the Contractor and if no negotiation is required, the Contracting Authority will seek confirmation from the Technical Authority to proceed with the work by signing the form noted above in sub paragraph 3(d). The Contracting Authority will then sign and authorize the unscheduled work to proceed.
- i. In the event that the Technical Authority does not wish to proceed with the work, the Contracting Authority will cancel the proposed unscheduled work in writing.
- j. In the event the negotiation involves a credit, the appropriate PWGSC form will be noted accordingly.
- k. In the event that the Technical Authority requires unscheduled work of an urgent nature or an impasse has occurred in negotiations the commencement of unscheduled work should not be unduly delayed and should be processed as follows:
- The Contractor will complete PWGSC 1379 form indicating the estimated cost and provide it to the Contracting Authority.
 - If the Technical Authority wishes to proceed, both the Technical Authority and the Contracting Authority will sign the completed PWGSC form. It will be understood and accepted that this cost will be a ceiling price cost and therefore only subject to downward adjustment.
 - A serial number will be allocated and will include Suffix A.

The work will proceed with the understanding that following an audit of the Contractor's actual costs for completing the described work, the cost will be finalized at the ceiling price or lower, if justified by the audit. A new PWGSC form will then be completed with the finalized costs, signed and issued with the same Serial Number without the suffix "A", and bearing a notation that this form is replacing and canceling the form having the same Serial Number with the suffix "A".

NOTE: PWGSC forms bearing serial numbers with a suffix A shall not be included in any contract amendments and therefore no payment shall be made until final resolution of the prices and subsequent incorporation into the contract have been completed.

F4. Amendment to Contract or Formal Agreement

The contract will be amended from time to time in accordance with the contract terms in order to incorporate costs that have been authorized on the proper PWGSC form(s).

ANNEX G – QUALITY CONTROL / INSPECTION

G1 Quality Control Plan

The Contractor must implement and follow the Quality Control Plan (QCP), prepared in accordance with the latest issue (at contract date) of the ISO 10005 : 2005 Quality Management – Guidelines for quality plans, approved by both the Inspection and the Technical Authority. The QCP must describe how the Contractor will conform to the specified quality requirements of the Contract and specify how the required quality activities are to be carried out, including quality assurance of subcontractors. The Contractor must include a traceability matrix from the elements of the specified quality requirements to the corresponding paragraphs in the QCP. The QCP must be made available to both the Inspection and Technical Authority for review and approval within five (5) calendar days after contract award.

The documents referenced in the QCP must be made available within two (2) working days as and when requested by the Inspection Authority. The Contractor must make appropriate amendments to the QCP throughout the term of the Contract to reflect current and planned quality activities. Amendments to the QCP must be acceptable to the Inspection Authority and the Technical Authority.

G2 Inspection and Test Plan (ITP)

1. The Contractor must prepare an Inspection and Test Plan (ITP) comprising individual inspection and test plans for each specification item of this project in accordance with the Quality Standard and its Quality Control Plan (QCP). The ITP must be submitted to the Inspection Authority for review and amended by the Contractor to the satisfaction of the Inspection Authority.
 - a. Each ITP must contain all inspection points identified in the Specification highlighting any mandatory points that must be witnessed by the Inspection Authority and other "hold" points imposed by the Contractor to ensure the quality of the work.
 - b. Milestone delivery date for the ITP is given in the Contract however individual ITPs should be forwarded for review as developed.
2. Coding:
 - a. Each ITP is to be coded for identification clearly demonstrating a systematic approach similar to the following (Contractor's system should be defined in its QCP):
 - i. Prefixes for Inspections, Tests and Trials:
 - prefix "1" is a contractor inspection – i.e.: 1H-10-01, 1H-10-02
 - prefix "2" is a contractor post repair test – i.e.: 2H-10-01; and
 - prefix "3" is a contractor post repair test – i.e.: 3H-10-01
 - b. Specification items followed by assigned sequence numbers for inspection processes within each Specification item; and
 - c. Cross reference to a verification document number.

G3 Inspection and Test Plan Criteria

Inspection criteria, procedures and requirements are stated in the specifications, drawings, technical orders and reference standards invoked by the Specification. Test and trial documentation may also be included or referenced in the Specification. An individual ITP is required for each specification item.

1. All ITPs must be prepared by the Contractor in accordance with the above criteria, its quality plan and must provide the following reference information:
 - a. the ship's name;
 - b. the specification number item;

- c. equipment/system description and a statement defining the parameter which is being inspected;
- d. a list of applicable documents referenced or specified in the inspection procedure;
- e. the inspection, test or trial requirements specified in the specification;
- f. the tools and equipment required to accomplish the inspection;
- g. the environmental conditions under which the inspections are to be conducted and the tolerances on the inspection conditions;
- h. a detailed step by step procedure of how each inspection is to be performed, conformance parameters, accept/reject criteria and recording of results, deficiencies found and description of corrective action(s) required;
- i. name and signature of the person who prepared the plan, date prepared and amendment level; and
- j. names and signatures of the persons conducting and witnessing the inspection, test or trial.

2. Contractor Imposed Testing:

- a. Tests and trials in addition to those given in the specification must be approved by the Inspection Authority.
- b. Amendments: Amendment action for the ITPs must be ongoing throughout the refit and reflect the inspection requirements for unscheduled work. Amendments must be submitted as developed, but not less frequently than once every second week.

G4 Conduct of Inspection

1. Inspections must be conducted in accordance with the ITP and as detailed in G4.
2. The Contractor must provide its own staff or subcontracted staff to conduct inspections, test and trials; excepting that Technical Authority or Inspection Authority personnel may be designated in the specification in which case the Contractor must ensure that its own staff are provided in support of such inspection, test and/or trial.
3. The Contractor must ensure that the required conditions stated in the ITP prevail at the commencement of and for the duration of each inspection, test and/or trial.
4. The Contractor must ensure that personnel required for equipment operation and records taking during the inspection, test and/or trial are briefed and available at the start and throughout the duration of the inspection, test and/or trial. Tradesmen or FSRs who may be required to effect minor changes or adjustments in the installation must be available at short notice.
5. The Contractor is to coordinate the activities of all personnel taking part in each inspection, test and/or trial and ensure that safe conditions prevail throughout the inspection, test and/or trial.

G5 Inspection Records and Reports

1. The Contractor on the inspection record, test or trials sheets as applicable must record the results of each inspection. The Contractor must maintain files of completed inspection records consistent with the Quality Standard and its Quality Plan for this project.
2. The Contractor's QC representative (and the FSR when required) must sign as having witnessed the inspection, test or trial on the inspection record. The Contractor must forward originals of completed inspection records, together with completed test(s) and/or trials sheets to the Inspection Authority as they are completed.
3. Unsatisfactory inspection, test and/or trial results for which corrective action cannot be completed during the normal course of the inspection, test and/or trial will require the Contractor to establish and record the cause of the unsatisfactory condition to the satisfaction of the Inspection Authority. Representatives to Canada may assist in identification where appropriate.

4. Corrective action to remove the cause of unsatisfactory inspections must be submitted to the Inspection Authority in writing by the Contractor for approval before affecting such repairs and rescheduling of the unsatisfactory inspection, test and/or trial. Such notices must be included in the final records passed to the Inspection Authority.
5. The Contractor must undertake rectification of defects and deficiencies in the Contractor's installation or repair as soon as practicable. The Contractor is responsible to schedule such repairs at its own risk.
6. The Contractor must reschedule unsatisfactory inspections after any required repairs have been completed.
7. Quality Control, Inspection and Test records that substantiate conformance to the specified requirements including records of corrective actions must be retained by the Contractor for three (3) years from the date of completion or termination of the Contract and must be made available to the Inspection Authority upon request.

G6 Inspection and Trials Process

1. Drawing and purchase orders:
 - a. Upon receipt of two (2) copies of each drawing or purchase order, the designated Inspection Authority will review its content against the provisions of the specification. Where discrepancies are noted the Inspection Authority will formally advise all concerned in writing, using the Discrepancy Notice. The resolution of any such discrepancy is a matter for consultation between the Contractor and other Crown Authorities.

NOTE: The Inspection Authority is NOT responsible for the resolution of discrepancies.

2. Inspection:
 - a. Upon receipt and acceptance of the Contractor's ITP, inspection will consist of a number of inspection points supplemented by such other inspections, tests, demonstrations and/or trials as may be deemed necessary by the Inspection Authority to permit them to certify that the work has been performed in compliance with the provisions of the specification. The Contractor must be responsible for notifying the designated Inspection Authority of when the work will be available for inspection sufficiently in advance to permit the designated Inspection Authority to arrange for the appropriate inspection.
 - b. The Inspection Authority will inspect the materials, equipment and work throughout the project against the provisions of the specification and where non-conformances are noted, will issue appropriate inspection non-conformance reports (NCR).
 - c. The Contract requires the implementation of a Quality Assurance/Quality Control (QA/QC) system so the Inspection Authority requires the Contractor to provide a copy of its internal inspection report pertaining to a work item, before conducting the requested inspection. If third party inspections are required by the Contract the reports of these inspections must be submitted before the Work is inspected by the PWGSC Inspection Authority.
 - d. Incorrect or false QA/QC documentation submitted to the Inspection Authority prior to inspection of the Work the Inspection Authority may issue an Inspection non-conformance report against the Work. In addition, a separate report may be issued against the Contractor's QA/QC system.
 - e. Before carrying out any inspection, the Inspection Authority must review the requirements for the Work and the acceptance and/or rejections standards to be applied. Where more than one standard or requirement are applicable, the order of precedence in the Contract will identify the priority.

3. Inspection Non-Conformance Report:

- a. An Inspection Non-Conformance Report will be issued for each non-conformance noted by the Inspection Authority. Each report will be uniquely numbered for reference purposes, will be signed and dated by the Inspection Authority and will describe the non-conformance.
- b. When the non-conformance has been corrected by the Contractor and has been re-inspected and accepted by the Inspection Authority, the Inspection Authority will update the report with applicable signature and date.
- c. At completion of the project the content of all Inspection Non-Conformance Reports which have not been signed off by the Inspection Authority will be transferred to the Acceptance documents before the Inspection Authority's certification of such documents.

4. Tests, trials and demonstrations

- a. To enable the Inspection Authority to certify that the Work has been performed satisfactorily and in accordance with the Contract and specification, the Contractor must schedule, co-ordinate, perform and record all specified tests, trials and demonstrations required.
- b. Where the specification contains a specific performance requirements for any component, equipment, sub-system or system the Contractor must test each component, equipment, sub-system or system to the satisfaction of the Inspection Authority to prove that the specified performance has been achieved and that the component, equipment, sub-system or system perform as per specification.
- c. Tests, trials and demonstrations must be conducted in accordance with a logical, systematic schedule which must ensure that all associated components and equipment are proven before sub-system demonstrations or testing, and that the sub-systems are proven before system demonstration or testing.
- d. Where the specification does not contain specific performance requirements of any component, equipment, sub-system or system, the Contractor must demonstrate such component, equipment, sub-system or system to the satisfaction of the Inspection Authority.
- e. The Contractor must submit its ITP as detailed in G2.
- f. The Contractor must co-ordinate each test, trial and demonstration with all interested parties including the Inspection Authority, Contracting and Technical Authorities, regulatory authorities, Classification Society, subcontractors etc. The Contractor must provide the Inspection Authority and other Crown Authorities with a minimum of five (5) working days notice of each scheduled test, trial or demonstration.
- g. The Contractor must keep written records of all tests, trials and demonstrations conducted as detailed in G5. The Contractor may utilize the PWGSC Standards Tests & Trials Record Sheets which can be customized by the Contractor to suit individual test or trial requirements. These record sheets are available from the Inspection Authority in digital format.
- h. The Contractor must in all respects be responsible for the conduct of all tests and trials in accordance with the requirements of the Contract.

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- i. The Inspection Authority and the Technical Authority reserve the right to defer commencement of or continuation with any sea trials for any reasonable cause, including but not limited to:
 - i. adverse weather;
 - ii. visibility
 - iii. equipment failure or degradation;
 - iv. lack of qualified personnel; and
 - v. inadequate or non-compliance with safety standards.

ANNEX H – FINANCIAL BID PRESENTATION

SHEET H1 Price for Evaluation:

A)	<p>Known Work</p> <p>For work as stated in Part 1 – GENERAL INFORMATION, article 1.2, specified in Annex A – Statements of Work and detailed in the attached ANNEX H – Financial Bid Presentation Sheet – Appendix 1 - Pricing Data Sheet for a FIRM PRICE of:</p>	\$ _____
B)	<p>Unscheduled Work – Contractor labour cost</p> <p>Estimated labour hours at a firm charge out labour rate including overhead and profit for evaluation purposes only:</p> <p>300 person hours x \$ _____ per hour for a PRICE of: See Annex H, article H2.1 and H2.2 below.</p> <p>Overtime premium for time and one half: Estimated hours for evaluation purposes only: 50 person hours x \$ _____ per hour for a PRICE of: See Annex H, article H3 below.</p> <p>Overtime premium for double time: Estimated hours for evaluation purposes only: 50 person hours x \$ _____ per hour for a PRICE of: See Annex H, article H3 below.</p>	<p>\$ _____</p> <p>\$ _____</p> <p>\$ _____</p>
C)	<p>Daily Service Fees</p> <p>For evaluation purpose only as per Annex H, article H4:</p> <p>Five (5) working days x \$ _____ firm daily service fee</p> <p>Two (2) non-working days x \$ _____ firm daily service fee</p>	<p>\$ _____</p> <p>\$ _____</p>
D)	<p>Vessel Transfer Cost</p> <p>For evaluation purpose only as per Annex H, article H6:</p> <p>Proposed shipyard/ship repair facility _____</p>	\$ <u>NOT USED</u>
E)	<p>Cost of Financial Security as per 6.2</p> <p>Type of Financial Security (as per 6.2.1):</p> <p><u>NOT USED</u></p>	\$ <u>NOT USED</u>
F)	<p>EVALUATION PRICE</p> <p>[A + B + C] for an EVALUATION PRICE (applicable taxes excluded) of:</p>	\$ _____

H2 Unscheduled Work

The Contractor will be paid for unscheduled work arising as authorized by Canada. The authorized unscheduled work will be calculated as follows:

Number of hours (to be negotiated) x \$ _____ for the Contractor's firm hourly charge-out labour rate. This rate is to include consumables, overhead and profit. The net laid-down cost of materials which may include a mark-up of ten (10) percent plus applicable taxes. The firm hourly charge-out labour rate and the material mark-up will remain firm for the duration of the Contract including any subsequent amendments.

- H2.1: Notwithstanding definitions or usage elsewhere in the Contract or in the Contractor's Cost Management System, when negotiating hours for unscheduled work PWGSC will consider only those hours of labour directly involved in the production of the subject work package.
- H2.2: Allowance for related labour costs such as management, all supervision, purchasing and material handling, quality assurance and reporting, first aid, gas free certification inspecting and reporting and estimating and preparing unscheduled work submissions will be included as overhead for the purposes of determining the charge-out labour rate as entered in section H2 above.
- H2.3: The ten (10) percent mark-up rate for material will also apply to subcontracted costs. The mark-up rate includes any allowance for material and subcontract management not allowable in the charge out labour rate. The Contractor will not be entitled to a separate labour component for the purchase and handling of materials or subcontract administration.

Pro-rated Prices Unscheduled Work

Hours and prices for unscheduled work shall be based on comparable historical data applicable to similar work at the same facility, or shall be determined by pro-rating the quoted Work costs in the Contract when in similar areas of the vessel.

H3 Overtime

The Contractor must not perform any overtime under the Contract unless authorized in advance in writing by the Contracting Authority. There will be no overtime payment for Known Work. Any request for payment must be accompanied by a copy of the overtime authorization and a report containing the overtime performed pursuant to the written authorization. Overtime shall not be paid unless authorized in writing by the Contracting Authority. Payment for authorized overtime will be calculated as follows:

For unscheduled work, the Contractor will be paid the authorized overtime hours at the following charge-out labour rates:

- a. Time and One Half**:

\$ _____ per hour;

- b. Double Time***:

\$ _____ per hour

This rate shall be a blended rate for all classes of labor, engineering and foreperson and shall include all overheads, supervision and profit.

These rates will remain firm for the duration of the Contract, including all amendments and are subject to audit if considered necessary by Canada.

* Regular time is defined as an 8 hour work day

** Overtime Time and One-Half Rate is defined as time in excess of the regular time*,.

*** Overtime Double Time Rate is defined as Sundays and Statutory Holidays Pro-rated Prices

H4 Daily Services Fees

In the event of a delay in the performance of the Work and if such delay is recognized and agreed upon by the Contracting Authority as being attributable to Canada, Canada agrees to pay the Contractor the daily service fee described below for each day the Work is delayed. This fee shall be the sole liability of Canada to the Contractor for the delay.

The firm daily services fee is:

- a. For a working day: \$ _____
- b. For a non-working day: \$ _____

The above fees shall include but not be limited to all aspects of the following costs: project management services, administrative support, production services, quality assurance, material support, planned maintenance and ship services and all other resources and direct costs required to maintain the vessel at the Contractor's facility. These fees are firm and not subject to any additional charges for mark up or profit.

H5 Vessel, Refit, Repair or Docking Costs

The following costs must be included in the price:

1. Ship services: include all costs for ship services such as water, steam, electricity, lighting etc. that are required for vessel maintenance for the duration of the Contract.
2. Docking and undocking includes:
 - a. all costs resulting from dry docking, wharfage, security, shoring, shifting and/or moving of the vessel within the successful Bidder's facility;
 - b. the cost of services to tie up the vessel alongside and to cast off.

Unless specified otherwise, the vessel will be delivered by Canada to the successful Bidder's facility alongside a mutually agreed safe transfer point, afloat and upright, and the successful Bidder will do the same when the Work is completed. The cost of services to tie up the vessel alongside and to cast of must be included in the evaluation price.

3. Field services representatives/supervisory services: consist of the costs for field service representatives and/or supervisory services including manufacturers' representatives, engineers, etc.

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These services must not be an extra charge except where unscheduled work requiring these services is added to the Contract.

4. Removals: include all costs for removals necessary to carry out the Work and will be the responsibility of the successful Bidder regardless if they are identified in the specification, except those removals not apparent when viewing the vessel or examining the drawings. The successful Bidder will also be responsible for safe storage of removed items and reinstallation of all items on completion of the Work. The successful Bidder will be responsible for renewal of components damaged while in their custody including during removal or reinstallation.
5. Sheltering, staging, cramage and transportation: include the cost of all sheltering, staging including handrails, carnage and transportation to carry out the Work as specified.

The successful Bidder will be responsible for the cost of any necessary modification of these facilities in order to meet applicable safety regulations.

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ANNEX H – Appendix 1 – PRICING DATA SHEET (HMCS Haiada – alongside refit 2018)

Spec Ref.	Description	Labour (hours)	Labour (\$) Tax Excl.	Material (\$) Tax Excl.	FSR/Sub Contractors (\$) Tax Excl.	Sub Total (Tax Excl.)
1.0	General Requirements					
2.0	Services					
3.1	Brige Deck					
3.2	Exterior Deck					
3.3	Exterior Deck Plugs					
3.4	Exterior Bulkheads					
3.5	Weather Protection for the Access to the Engine Room					
3.6	Flag Cabinet					
3.7	Portholes and Eyebrows					
3.8	Hand Rails					
3.9	Wooden Hand Rails					
3.10	Funnel					
3.11	Forward Gun Mount and Enclosure A					
3.12	Forward Gun Mount and Enclosure B					
3.13	Rear Gun and Depth Charge Launcher mounts					
3.14	Side Guns Mounts					
3.15	Forward Mast					
3.16	After Mast					
3.17	Stairs at Aft End of Main Deck					
3.18	Ward room pantry					
3.19	Electrical Power Distribution, Repairs and Upgrades					
3.20	Lighting, Outlets, Monitoring, Fire Detection, and Exit Lighting					
3.21	Doors and Hatches					
3.22	Bilge Well #3 Magazine					
TOTAL						

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ANNEX I – VESSEL CUSTODY - not used

ANNEX J

DELIVERABLES/CERTIFICATIONS

J1 Mandatory Tender Deliverables Check List

Notwithstanding deliverable requirements specified within the bid solicitation and its associated Technical Specification (Annex A), mandatory deliverables that must be submitted with the Bidder's tender to be deemed responsive are summarized below.

The Bidder must submit a completed Annex "J1" Deliverables/ Certifications.

The following are mandatory and the Bidder's submission will be evaluated against the requirements as defined herein. The Bidder must be determined to be compliant on each item to be considered responsive.

Item	Description	Completed and Attached
1	Invitation To Tender document part 1 page 1 completed and signed;	
2	Completed Annex "H" Financial Bid Presentation Sheet", clauses H1 through H6;	
3	Completed Pricing Data Sheets, per clause 3.1 Section II, Annex "H",Appendix 1;	
4	Completed Annex "J1" Deliverables/Certifications;	
5	Changes to Applicable Laws (if any), as per clause 2.4	
6	Integrity Provisions - Associated Information, section 5.1.1	
7	Federal Contractors Program for Employment Equity, Complete section 5.1.2	
8	Vessel Transfer Cost, as per clause 6.3 and Annex "H"	Not used
9	Docking Facility, as per clause 6.4	Not used
10	Proof of good standing with Worker's Compensation Board, as per clause 6.5	
11	Proof of valid Labor Agreement or similar instrument covering the work period, as per clause 6.6	
12	Preliminary Work Schedule , per clause 6.7;	
13	Fueling and Disembarking Procedures, as per clause 6.8;	Not required at bid close
14	If Registered its Valid ISO 9001-2008 Certification, as per clause 6.9	
15	Objective evidence of documented Health and Safety System, as per clause 6.10;	
16	Objective evidence of documented Fire Protection, Fire Fighting and Training Procedure, as per clause 6.11	
17	Insurance Requirements, as per clause 6.13	
18	Proof of welding certification, as per clause 6.14	
19	Project Management as per clause 6.15	
20	List of subcontractors, as per clause 6.16	
21	Example of its Quality Control Plan, as per clause 6.17	

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22	Example of an Inspection and Test Plan as per clause 6.18	
23	Details of Environmental Emergency Response Plan, Details of Formal Environmental Training as per Clause 6.19	

J2 Deliverables after Contract Award

Item	Description	Reference	Due By
1	Insurance requirements as per Annex "D"	Clause 7.11 and Annex "D"	10 Working Days after contract award
2	Revised Work Schedule	Clause 7.15	5 calendar days after contract award
3	Contract Financial Security	Clause 7.13	Not used
4	The Contractor's Quality Control Plan	Clause 7.20	5 calendar days after contract award
5	The list of Government specialized loaned equipment that the Contractor intends to request.	Clause 7.27	3 calendar days after contract award

J3 Deliverables Prior to Contract Award (If Requested)

Item	Description	Reference	Due By
1	Financial Capability	Clause 6.1	5 Working Days prior to contract award if requested

**Parks Canada
Heritage Vessel “HMCS Haida”**

“HMCS Haida”

**Deck & Superstructure Refit
Specification**

August, 2018

Ver. 3.2

Parks Canada Agency

**Parks Canada
Heritage Vessel "HMCS Haida"**

Vessel Particulars

Service	
Vessel	Haida
Operator/Owner	Parks Canada
Time of Operation	Out of Service – Afloat Historic Site
Built	1940
Class	Tribal destroyer
Deadweight	
Gross Tonnage	3000 T
Net Tonnage	
Lightship	1885 T
Displacement Summer Load Line	
Length Overall	377
Length BP	355.6
Breadth Moulded	
Beam	37.6
Depth Moulded To Main Deck	
Depth Moulded To Upper Deck	
Draft	9 ft. 6 in aft 8 ft 6 in fwd
Fuel Type and Quantity	

**Parks Canada
Heritage Vessel “HMCS Haida”**

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- 3.18 Ward Room Pantry
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- 3.20 Lighting, Outlets, Monitoring, Fire Detection, and Exit Lights
- 3.21 Doors and Hatches
- 3.22 Bilge Well # 3 Magazine

**Parks Canada
Heritage Vessel “HMCS Haida”**

1.0 General Requirements

1.1 OBJECTIVE

- a. “HMCS Haida” National Historic Site of Canada is a Parks Canada Agency asset that is staffed by various Parks Canada staff and volunteers and visited by tourists from Canada and other countries. Their safety and security while working or visiting the site is a necessity at all times.
- b. The proposed work will correct issues both cosmetic and structural currently affecting the appearance of the vessel, promote the long term preservation of the vessel and enhance the safety of the tourists visiting the vessel as well as the Parks Canada staff.
- c. Work will be performed at the Pier 9 HMCS Haida berth on the Hamilton, Ontario water front.
- d. Work must be complete, work areas impacted by the work cleaned, restored and all contractors’ tools and equipment removed prior to the contractual delivery date.
- e. HMCS Haida National Historic Site of Canada is a site of National significance; therefore, it is essential all existing heritage features remain as found. Consequently, standards for environmental protection and for visual aesthetics of final product shall be of a high quality. Contract limits are to be strictly adhered to and Contractor is to take special care to minimize damage and disruption as well as to protect existing heritage features during the work.
- f. Parks Canada has a Hazardous Material Report prepared in 2017. A copy is available from Parks Canada to view on request.
- g. Paint work will be conducted under the guidance of an International Paint Representative.

1.2 DEFINITIONS

- a. Owner – Parks Canada Agency
- b. Owner’s Representative – Parks Canada Technical Authority

1.3 GENERAL

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- a. The Contractor shall supply all materials, paint/coatings required to carry out the Work unless otherwise specified.
- b. The Contractor is responsible to request and coordinate all required attendance by Parks Canada for inspection of the work.
- c. This vessel has hazardous materials. See Hazardous material report “DESIGNATED SUBSTANCE AND HAZARDOUS MATERIALS SURVEY - HMCS HAIDA” dated 31 January 2017.

2.0 Services

- a. Garbage and trash containers for contractor’s use shall be provided and kept in a sanitary condition at all times. Bidders shall include the cost of providing and maintaining a garbage container, and for emptying of the container throughout the entire contract work period. Disposal of the garbage and trash at an approved waste disposal site is to be done by contractor at the contractor’s expense.
- b. All passenger and crew accommodation is off limits to Contractor’s personnel unless contract work dictates entry. If the Contractor is required to enter the accommodation, all deck coverings and furnishings exposed to Contractor’s personnel shall be adequately protected. Entry is only to be made following notification and approval of Parks Canada.

3.0 Work

3.1 Bridge Deck

- a. Wooden deck stand is to be lifted and set aside for reuse. Deck is to be cleaned using hand tools to remove corrosion and loose paint. Deck is to be inspected and ten ultrasonic thickness readings are to be taken and readings reported to the Parks Canada representative.
- b. On completion of the inspection and any authorized repairs the deck shall be final cleaned and coated.
- c. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over these bare deck areas.

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- d. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- e. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- f. Wooden stand is to be inspected and any deteriorated pieces reported to Parks Canada for repair by 1379 action.
- g. Bulwarks and bulkheads are to be cleaned with hand tools to remove rust and loose paint.
- h. On completion of cleaning any bare areas shall be coated.
- i. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- j. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- k. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- l. The metal visor on the forward edge of the space has a wooden protection strip. This strip is badly deteriorated. The strip is to be removed and a replacement of the same size and shape is to be fabricated of white oak. Section of strip previously removed will not be replaced. New strip is to be coated by 6 coats of marine varnish and reinstalled using new brass fittings.

3.2 Exterior Decks

- a. Large areas of the exterior decks are coated with a cloth like substance that has partially lifted. Contractor shall measure the affected areas at the time of the bidder’s conference and viewing. This is allowing water to become trapped between the cloth and the deck and causing corrosion. This cloth material is to be removed and disposed off.

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- b. The deck area is covered with small bolt on boxes, ready use magazines and other small attachments. These objects are to be unbolted and removed and stored ashore to allow access to the entire deck and reinstalled upon completion of the deck repairs.
- c. While removed from the vessel these items are to be cleaned using hand tools and recoated to match the existing colour.
- d. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over these bare deck areas.
- e. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- f. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- g. Entire deck is to be grit blasted to remove any rust or loose paint. Deck is to be inspected for signs of deterioration. Contractor is to include in the price for one hundred ultrasonic thickness readings, the location of the shots will be selected in consultation with Parks Canada. Contractor is to quote on 10 square meters for the installation of 4.76mm (3/16) inch steel doubler plate. This number will be used to prorate the cost upwards or downward to reflect condition of the plates. The contractor is to also quote on fitting 10 square meters for the installation of 4.76mm (3/16) inch steel insert plate.
- h. On completion of any required repairs the entire deck surface shall be coated.
- i. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over the entire deck area.
- j. Apply 1 top coat of Interbond 201, Colour “Light Battle Ship Grey”, dft 5.0 to 6.0 mils, over the entire deck area. This top coat is to be applied with a compatible International Paint “non-slip aggregate”. One gallon of aggregate shall be applied to each five gallons of paint.

3.3 Exterior Deck Plugs

- a. The exterior main deck and the deck immediately above it have many deck plugs covering access to sounding pipes, filling lines and such. Each of these plugs is to be

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opened up, the seating are to be cleaned and the deck plugs reinstalled using new “O” rings. Approximately 40 plugs to be dealt with.

3.4 Exterior Bulkheads

- a. All exterior bulkheads are to be water washed using a solvent to remove any grease or dirt. Areas showing any signs of corrosion are to be cleaned with hand tools or grit blasted and cleaned area to be inspected by the inspection authority. Particular attention is to be paid to the gun deck section immediately above the deck. Any required doublers will be fitted using 1379 action.
- b. The bulkheads are covered with attachments, small bolt on boxes, stowed items and other small attachments. These objects are to be unbolted and removed and stored ashore to allow access to the entire bulkheads and reinstalled upon completion of the bulkhead repairs
- c. Contractor is to quote on supplying and fitting 7.7m by 4.76mm (3/16) inch doublers along fringe between deck and bulkhead.
- d. New steel doublers and any area cleaned to bare metal will be coated.
- e. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over these bare deck areas.
- f. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- g. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- h. The entire surface of the bulkheads throughout the exterior superstructure shall be final coated with 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils.
- i. All signage, plaques and postings are to be masked prior to painting and on completion of painting masking’s are to be removed and any overspray cleaned off.

3.5 Weather Protection for the Access to the Engine Room

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- a. On the starboard side of the structure a hole has developed through both plates. Contractor is to cut out wasted plate 250 mm by 500 mm on each side of the structure and weld in an insert using contractor supplied 4.76mm (3/16) plates. New plate is to be fitted to overlap existing solid plate to reach a solid metal to allow welding.
- b. New plate and any area cleaned to bare metal will be coated. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over these bare deck areas.
- c. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- d. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.

3.6 Flag Cabinet

- a. The flag cabinet on the port side of the vessel is showing signs of surface rust. Cabinet is to be removed from the vessel cleaned by grit sweep.
- b. After cleaning cabinet, it shall be coated. Any area cleaned to bare metal will be coated with 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over these bare deck areas.
- c. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- d. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- e. Areas of steel exposed by the removal of the flag cabinet are to be cleaned of loose paint and rust with hand tools or grit blast and then coated.
- f. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over these bare deck areas.
- g. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- h. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.

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- i. On completion of painting of the flag cabinet the cabinet is to be installed on the vessel.

3.7 Portholes and Eyebrows

- a. The vessel is fitted with 80 portholes on the main deck and the deck immediately below it. These portholes are used for ventilation during the summer months and must be free to open and close and to be weather tight.
- b. Each porthole is to be opened up, any hardened rubber gasket removed and the landing surface cleaned using hand tools. Hardened gaskets are to be replaced using contractor supplied gaskets. Contractor is to quote on replacing all 80 gaskets. The final number will be adjusted up or down using 1379 action.
- c. On completion of cleaning bare steel surfaces shall be coated.
- d. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over these bare areas.
- e. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- f. Apply 1 coat of Interlac 665, colour “White”, dft 2 mils, over the Intergard 263.
- g. All securing devices are to have the paint removed from threads and demonstrated free turning. On completion threads are to be coated with marine grease.

3.8 Hand Rails

- a. Hand rail stanchions are to be cleaned using hot water and solvent, followed by wire brush to remove any corrosion. Stanchions are to be inspected and any defects reported to Parks Canada. On completion of inspection any bare metal is to be primed, followed by a top coat of white paint to match existing paint.
- b. Top rail is a combination of steel rod, coated wire rope and turn buckles. Turn buckles are to be removed, cleaned, made operable, greased using marine grease, reattached and tightened. Steel rod and wire ropes are to be wire brushed to remove any loose

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paint and recoated with marine grade black paint. Contractors are to quote on replacing 10 meters of the top rail to be adjusted up or down by 1379 action.

- c. Beneath the top rail are two wire rope rails with a black top coating tightened by turn buckles and secured with shackles. Turn buckles and shackles are to be cleaned, greased and inspected. Rails are to be cleaned of any loose paint, repainted with black paint and retightened. On completion of painting railings are to be retightened.
- d. Netting that runs between the railings is to be inspected and tightened. Any defects are to be reported to Parks Canada and will be repaired by 1379 action.

3.9 Wooden Hand Rails

- a. On the aft end of the upper deck is a wooden hand rail approximately 25 meters in length. Rails are to be removed from the ship for refinishing. Steel support rail is to be wire brushed to remove scale and rust. On completion of cleaning the rail is to be inspected and any defects reported to Parks Canada. Repairs if required will be by 1379 action. Metal rails are to be primed than painted with one coat of a marine black top coat. Contractors to quote on replacing 5 meters support rails to be adjusted by 1379 action.
- b. Wooden hand rails are to be sanded to remove existing varnish. On completion of sanding the rails are to be coated with six coats of marine grade varnish, with a light sanding between each application. On completion of the varnishing the rail is to be reinstalled using existing fittings. Contractors to quote on replacing 5 meters wooden rails to be adjusted by 1379 action.

3.10 Funnels

- a. The vessel is fitted with two main funnels, which are well capped. The top of each funnel is to be cleaned using a water wash, with solvent and hand tools for the removal of any rust or loose paint.
- b. On completion of cleaning any bare areas shall be coated.

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- c. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- d. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- e. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- f. The entire top of each funnel shall be coated with 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils.
- g. The interior of the funnels shall be inspected and the condition reported to Parks Canada. Any repairs will be by 1379 action.
- h. Both funnels are supported with guy wires to the adjacent deck. The connections of these wires to the funnels and deck are to be inspected and turn buckles to be cleaned and greased. Any defects are to be reported to Parks Canada. Defects if found will be repaired by 1379 action.
- i. The small exhaust pipe immediately aft of the forward funnel is to be cleaned with a water wash and then painted as per the main funnels.
- j. Funnel sides and attached vents are to be cleaned using water and a solvent, or grit blast if necessary to remove rust and loose paint.
- k. On completion of cleaning the funnels shall be coated.

3.11 Forward Gun Mount and Enclosure A

- a. The forward gun enclosure “A” has 5 small hinged openings. The hinges are to be cleaned and made operable. Openings are to be cleaned and repainted prior to reinstallation.
- b. Four soft patches are to have the bolts removed and replaced using new contractor supplied bolts (32 Bolts 5/8” X 1.5”) and gaskets. Patches are to be cleaned and reinstalled.

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- c. Entire enclosure is to be washed with degreaser, any signs of corrosion removed with hand tools.
- d. 10 ultrasonic readings are to be taken on the shields on top of the structure and readings reported to Parks Canada.
- e. On completion of cleaning any bare areas shall be coated.
- f. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- g. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- h. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- i. **Caution - Only the gun enclosure is to be dealt with. The gun and its operating mechanism are not to be cleaned or painted. Contractor to ensure the protection of these areas during the work period. Protection material to be supplied by contractor.**

3.12 Forward Gun Mount and Enclosure B

- a. The forward gun enclosure “B” has 5 small hinged openings. The hinges are to be cleaned and made operable. Openings are to be cleaned and repainted prior to reinstallation.
- b. Four soft patches are to have the bolts removed and replaced using new contractor supplied bolts (32 Bolts 5/8” X 1.5”) and gaskets. Patches are to be cleaned and primed prior to being reinstalled.
- c. Entire enclosure is to be washed with degreaser, any signs of corrosion removed with hand tools.
- d. 10 ultrasonic readings are to be taken on the shields on top of the structure and readings reported to Parks Canada.
- e. On completion of cleaning any bare areas shall be coated.

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- f. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- g. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- h. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- i. **Caution - Only the gun enclosure is to be dealt with. The gun and its operating mechanism are not to be cleaned or painted. Contractor to ensure the protection of these areas during the work period. Protection material to be supplied by contractor.**

3.13 Rear Gun and Depth Charge Launcher mounts

- a. The rear gun and depth charge launcher mounts are to be cleaned by water and degreaser. Any signs of corrosion removed with hand tools.
- b. On completion of cleaning any bare areas shall be coated.
- c. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- d. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- e. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- f. **Caution - Only the gun enclosure is to be dealt with. The gun and its operating mechanism are not to be cleaned or painted. Contractor to ensure the protection of these areas during the work period. Protection material to be supplied by contractor.**

3.14 Side Guns Mounts

- a. Side gun mounts, shields and railings are to be cleaned with water and degreaser. On completion of cleaning mounts, shields and railings are to be inspected for signs of deterioration and the condition reported to Parks Canada. On completion of this inspection any repairs required by Parks Canada shall be carried out under 1379 action.

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- b. On completion of cleaning any bare areas shall be coated.
- c. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- d. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- e. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- f. **Caution - Only the gun enclosure is to be dealt with. The gun and its operating mechanism are not to be cleaned or painted. Contractor to ensure the protection of these areas during the work period. Protection material to be supplied by contractor.**

NOTE: Mast inspection work is to be done immediately on start of the refit work and a report provided to Parks Canada one week from the start of the work period.

3.15 Forward Mast

- a. The large forward mast on the vessel supports a large radar antenna and several smaller antennas as well numerous small fittings for signal halyards. The mast structure is to be inspected for wastage and corrosion and any issues reported to Parks Canada. The mountings structure for the radar and antennas and all other fixtures are to be checked for structural integrity and any defects reported to Parks Canada.

3.16 After Mast

- a. Attachments to the after mast as well as the four guy wires are to be inspected to ensure structural integrity, any defects are to be reported to Parks Canada. Corrosion is present at the base of the mast where it ties into the deck. This area is to be cleaned to bare metal and inspected to determine the extent of the deterioration. A new shoring base is to be fabricated consisting of a round plate 45cm in diameter with a center hole the size of the mast. This plate is to be cut in two to allow fitting around the mast and welded to the deck. Four triangular shaped stiffening brackets 15cm at the base and 20cm high are to be welded at 90 degree intervals around the mast with the 15 cm side

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against the newly fitted plate and the 20cm side to the mast. All attachments to the mast are to be inspected for structural integrity and any defects reported to Parks Canada.

- b. On completion of cleaning any bare areas shall be coated.
- c. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- d. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- e. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- f. Entire mast is to be painted with a second top coat of Interlac 665 when final coating of superstructure and equipment occurs.

3.17 Stairs at Aft End of Main Deck

- a. The stairs on the after main deck leading to the gun platform steps are devoid of paint and the non-slip treads are mainly missing. Remaining non-slip treads are to be removed. Steps are to be wire brushed to remove all corrosion, side pieces are to be water washed with solvent.
- b. On completion of cleaning any bare areas shall be coated.
- c. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- d. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- e. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- f. A second top coat of Interlac 665 shall be applied when the final coating of the superstructure and equipment occurs.
- g. Contractor is to supply and fit new marine quality self-adhesive non-slip treads.

3.18 Ward room pantry

- a. The outboard two rows of tiles are missing and the exposed deck is showing signs of corrosion. The area is to be cleaned using hand tools and coated with Intershield 300, colour ENA 301.
- b. On completion of the painting and curing of the paint the area is to be topped with Dexotex or an equivalent product to create a smooth transition to the tiles covering the remainder of the pantry deck. Remaining tiles are to be cleaned and degreased and entire area retiled using Parks Canada supplied tiles.

3.19 Electrical Power Distribution, Repairs and Upgrades

- a. Parks Canada has completed an “Electrical Power and Distribution Survey” Report dated 14 July 2017. The report includes a description of the existing system and recommendations for modifications and upgrades. These recommendations include power distribution upgrades, a new AC power distribution system, lighting renovations such as repairs and new installations.
- b. While the report also provides recommendations for upgrades to heating, ventilation, air conditioning and humidity control in particular spaces on the HMCS Haida, this work shall not be part of the scope of work for this repair period.
- c. The Contractor shall design, purchase, install, test and commission a new AC power distribution system for the HMCS Haida.
- d. A one-line drawing and a load analysis are attached. The one-line drawing indicates the existing electrical plant and proposed reconfiguration, with the addition of new electrical infrastructure, to create an upgraded and revised AC power distribution system. As stated at 3.18b, the upgrades to heating, ventilation, air conditioning and humidity control in particular spaces on the HMCS Haida, and new electrical infrastructure, shall not be part of the scope of work for this repair period.
- e. The Mid Power Room identified on the one-line drawing is to be stripped of all current equipment and new electrical infrastructure installed.

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- f. The existing primary 600V 3 phase 112.5KVA transformer (located on shore and owned by DND) shall be used to supply the new electrical system. Existing wiring between this transformer and the vessel is to be removed and replaced.
- g. New main feeder(s) shall be trenched from this existing transformer under the gangway.
- h. Surge protection devices at power distribution points shall be investigated and recommended. This information shall be part of the new design and shall be discussed and considered with Parks Canada for final decision by them. Proposed and decided protection devices shall be actioned by 1379 documentation.
- i. The new AC power distribution system shall be installed, tested and commissioned in accordance with the Canadian Electrical Code. The existing electrical system is not compliant with the modern standards of the Canadian Electrical Code.
- j. The existing electrical distribution system is many decades old and is a mix of original DC equipment and several additions of AC power at various periods over the last several years. Some of the 225 volt DC system is live. All of this equipment is to be decommissioned and de-energized. The Contractor shall ensure that the equipment is isolated and cannot be energized. The Contractor shall trace all possible connections to DC switchboards and distribution panels to ensure that no connection to live distribution is possible. However, all equipment shall be left in place as part of the heritage aspect of the HMCS Haida. Some exceptions to this will be specified. (see below)
- k. Two (2) original, and currently operating, DC motors operate fans in the accommodation ventilation trunking. One fan is located in the forward accommodation area and the other is located in the after accommodation area. These fans are to be refurbished and made operational with new wire to new transformers supplying DC power to each of these fans.
- l. Extensive 24 volt DC distribution systems shall also be decommissioned. Where low-voltage power is required for demonstration of radios or other discrete equipment a suitable modern power supply shall be provided locally and hidden to preserve the built heritage aspect of the vessel. These locations are identified as follows:
 - i. Radio Room 1,

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- ii. Radio Room 2,
 - iii. Operation Room
 - iv. Other rooms as requested by Parks
- m. The new AC power distribution system shall be well documented, complete and clear to identify all equipment, wiring, switches, panels, etc., and whether it is new, or refurbished and recommissioned. This documentation shall consist of written report(s) and one-line diagram(s).
- n. The Contractor shall ensure that the addition of new electrical infrastructure to create an upgraded distribution system:
- i. is based upon modern electrical equipment,
 - ii. is compliant with regulations, standards and modern best-practices,
 - iii. can accommodate the potential additional loads, such as future space heaters in machinery spaces and HVAC in selected accommodation areas of the vessel, as well as some extra capacity for currently unknown future additions,
 - iv. is properly documented with revised one-line diagram(s) AUTOCAD 2009 or newer and PDF on a Contractor provided vessel drawing for Parks Canada staff, and
 - v. is safe for staff and public visitors to be in contact with, while preserving the built heritage aspect of the vessel and its equipment of historic interest.
- o. The load analysis was intended to establish the capacity and rating of proposed infrastructure (cables, transformers, panels, feed from utility, etc) and to ensure that any proposals and recommendations are valid and reasonable.
- p. The Contractor shall conduct a short circuit and coordination analysis to ensure that individual protection devices will be properly selected, conductors properly sized and rated, and that the future distribution system is well protected from short circuits, ground faults, overloads and other potential faults. The analysis should be conducted once a new-one line diagram has been prepared by the Contractor identifying all new devices, cabling, lighting fixtures and outlets to be part of the new AC distribution system, and before the completion of final purchase of new equipment. A report, drafts and final, shall be provided to Parks Canada to ensure that it is well informed and may have opportunity to comment on completeness and clarity.

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- q. The paint house power supply shall be modified and fed from the dockside main distribution enclosure. A small transformer will be required in the paint house to create 110V single phase power from the incoming 600V. The existing distribution panel shall be evaluated. If replacement is necessary it will be a modification to the work scope and subject to a 1379 Work Arising.
- r. Several NEMA I14-20 Outlets exist on the vessel. These are used by film crews on an occasional basis. The power supply for these outlets shall be investigated and its source identified. The connectors are most commonly used for small portable single-(split)-phase generators. A single-phase transformer and distribution panel to support the outlets (shown as T6 and +Z006 on the proposed one-line drawing) shall be provided and commissioned as part of the new AC distribution system.
- s. Further to 3.19q, a separate new line shall be returned to the dock side, feeding a pole mounted 60 Amp, 120/240mVAC twist locking receptacle.
- t. The existing 75kVA distribution transformer (T8 on the one-line drawing in the Mid Power Room) is currently operational but is old with corrosion on the enclosure. The ‘spare’ 75kVA transformer located next to it is in similar condition. These two transformers shall be removed and replaced with a single new transformer.
- u. The one-line drawing indicates for guidance a number of distribution panels to be located at various points around the vessel, providing localised 208/120V distribution for new lighting and outlets. The final number and location of panels shall be determined during the detailed design exercise. New distribution panels shall be provided, with new suitably rated breakers.
- v. New distribution cables shall be run for the new AC power distribution system. All new cables shall be a minimum of No. 12 AWG.
- w. All new wiring shall be appropriately identified at both ends of feeders and branch circuits, and shall be indicated on the documentation required at 3.19k.

3.20 Lighting, Outlets, Monitoring, Fire Detection, and Exit Lighting

- a. The 2017 assessment includes proposals for LED lighting enhancements throughout the interior and exterior of HMCS Haida.

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- b. All light switching shall be controlled from one central location at the Mid-Ship Power Room. All lights shall be wired on 10 separate circuits to produce 10 lighting zones. The switches location at the Mid-Ship Power Room shall be considered, discussed with, and finally determined by Parks Canada.
- c. All new wiring is to be a suitably sized non-armoured marine cable, or TECH90 industrial cable, and is to be run in a manner to render the cable inconspicuous to visitors to the ship. All new wiring shall follow existing wire trays/routes where possible. New holes shall not be created in decks or superstructure without suitable justification and accompanying approval from the Project Manager. Cable runs are to be reviewed and approved by Parks Canada prior to installation.
- d. Where new wiring is to be trenched and run underground this wiring shall be TECH 90 industrial cable, or equivalent, suitable and approved for underground burial.
- e. Quantity ninety-two (92) lighting fixtures identified as having heritage character defining characteristics by Parks Canada shall be replaced and rewired OR retrofitted and rewired as indicated on attached drawings and made operational.
- f. Quantity one hundred (100) new 110 volt AC grounded 15 amp duplex outlets shall be installed per locations specified on drawings, with exact locations to be determined on site and approved by the Project Manager.
- g. Quantity three hundred fifty-six (356) RAB VAKS 100 light fixtures (or equivalent) shall be fitted as replacements for existing fixtures in their current locations.
- h. Quantity twenty-three (23) blackout light fixtures, RAB VBKS 100 complete with red glass globes (or equivalent) shall be supplied and fitted as replacements for existing fixtures in their current locations. These blackout lights shall be wired on one circuit, also switched from the Mid-Ship Power Room.
- i. The Contractor shall supply and install quantity four hundred seventy-one (471) 120 volt 12watt LED bulbs suitable for enclosed fixtures.
- j. New wire for the vessels navigation lights, including running and steaming, shall be run to those light locations. The fixtures shall be refurbished, made operational and recommissioned with the new wiring.

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- k. A new wire shall be run up the main mast for a future powering of a radar scanner motor.
- l. The existing intruder detection, fire detection and exit lighting circuits shall be inspected. A report shall be provided to verify the condition and the appropriate functional operational as intended for these systems. These systems shall remain in place and retie into new distribution panels.
- m. All new cabling shall be painted to conform to the colour scheme in the location of the new wiring. The paint coating shall be Interlac 665, colour “White or conforming to its location”, dft 2 mils.

3.21 Doors and Hatches

- a. All doors and hatches exposed to the weather are to be inspected and proven to be working freely. Existing seals shall be removed and landing area of seals shall be cleaned using hand tools.
- b. On completion of cleaning any bare areas shall be coated.
- c. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.
- d. Apply 1 coat of Intergard 263 dft 4.0 mils over the Intershield 300.
- e. Apply 1 coat of Interlac 665, colour “Light Battle Ship Grey”, dft 2 mils, over the Intergard 263.
- f. New seals shall be fitted to the doors.
- g. All doors and hatches are to be hose tested and any leaks repaired. Any damaged coating to be repaired.

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3.22 Bilge Well #3 Magazine

- a. The bottom of the bilge well starboard is corroded. Old bottom is to be cropped out and disposed of. A new bottom approximately 76 cm X 76cm X 4.76mm (3/16) is to be fabricated and welded in to replace it. Two inch angles will be fitted to the inside of the well on all four sides to provide a base to weld too.
- b. On completion of repairs and cleaning any bare areas shall be coated.
- c. Apply 1 coat of Intershield 300, colour ENA 301 Aluminum dft 5.0 mils over bare steel areas.