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ANNEX "A" - STATEMENT OF WORK

CCGS Terry Fox Vessel Life Extension

(Attached as separate document)

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 (work as stated in PART 7 - article 7.1, specified in Annex "A" – Statement of Work, and detailed in – Appendix 1 Pricing Data Sheet) less Total Milestone Payments (Table B1.1). FIRM PRICE of: For 1 - Pricing Data Sheet for the KNOWN FIRM PRICE of:	\$
B)	Applicable taxes of line A) only:	\$
C)	Total Milestone Payments FIRM PRICE, from Table B1.1, below:	\$
D)	Applicable taxes of line C) only:	\$
E)	Cost of Financial Security	\$
F)	Total firm Price excluding Applicable Taxes [A+C+E]	\$
G)	Total firm Price including Applicable Taxes [A+B+C+D+E]	\$

Table B1.1 MILESTONES (Price and Delivery)

To be inserted after award

B2 Unscheduled Work

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

Authorized Unscheduled Engineering Work will be calculated as follows:

Number of hours (to be negotiated) x \$ ____ for the Contractor's firm hourly charge-out Engineering rate. The firm Unscheduled Engineering Work rate shall be a blended rate of all classes of engineering, related supervision and inclusive of all fringe benefits, overhead and profit.

Authorized Other 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 to which will be added 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.

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

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 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 B2 above.

B2.3: The ten percent (10%) 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.

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

- a) Time and One Half**: \$ ____ per engineering hour;
- b) Double Time***: \$ ____ per engineering hour
- c) These rates shall be a blended rate of all classes of engineering, related supervision and inclusive of all fringe benefits, overhead and profit.
- d) These rates will remain firm for the duration of the Contract, including all amendments and are subject to audit if considered necessary by Canada.

For **other 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
- c) These rates shall be a blended rate for all classes of labor, and foreperson and shall include all overheads, supervision and profit.
- d) 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.

B4 Daily Services Fee

In the event of a delay in the performance of the Work that lengthens the Vessel 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, on dock: \$ _____
- b) For a Non-Working Day, on dock: \$ _____
- c) For a Working Day, alongside: \$ _____
- d) For a Non-Working Day, alongside: \$ _____

The above fees will 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 vessel 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 Contractor'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 Contractor's facility alongside a mutually agreed safe transfer point, afloat and upright, and the Contractor 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 and Supervisory Services: include all costs for field service Representatives and 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 Contractor whether or not they are identified in the specifications, except those removals not apparent when viewing the vessel or examining the drawings. The Contractor will also be responsible for safe storage of removed items and reinstalling them upon completion of the Work. The Contractor will be responsible for renewal of components damaged while in its facility, including during removal or reinstallation.

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.

Appendix 1 Pricing Data Sheet

ANNEX "C" Federal Contractors Program for Employment Equity - Bid 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 Department of Fisheries, Oceans, and Coast Guard, 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. Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
 - d. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
 - e. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.

- f. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
- g. Employees and, if applicable, Volunteers must be included as Additional Insured.
- h. Employers' Liability (or confirmation that all employees are covered by Worker's Compensation (WSIB) or a similar program).
- i. Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
- j. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority with thirty (30) days written notice of policy cancellation.
- k. If the policy is written on a claims-made basis, coverage must be in place for a period of at least twelve (12) months after the completion or termination of the Contract.
- l. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
- m. Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.
- n. Sudden and Accidental Pollution Liability (minimum 120 hours): To protect the Contractor for liabilities arising from damages caused by accidental pollution incidents.
- o. Litigation Rights: Pursuant to subsection 5(d) of the *Department of Justice Act*, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

D3. Errors and Omissions Liability Insurance

1. The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional 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 \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
2. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
3. The following endorsement must be included:

Notice of Cancellation: The Contractor will provide the Contracting Authority thirty (30) days prior written notice of policy cancellation or any changes to the insurance policy.

D4. All Risk Property Insurance

The Contractor must obtain All Risks Property insurance while the Government Property is under its care, custody or control, and maintain it in force throughout the duration of the Contract, in an amount of not less than \$15,000,000.

The Government's Property must be insured on Replacements Cost (new) basis.

1. Administration of Claims: The Contractor must notify Canada promptly about any losses or damages to Government Property and monitor, investigate and document losses of or damage to ensure that claims are properly made and paid.
2. The All Risks Property insurance policy must include the following:
 - a. Notice of Cancellation: The Contractor will provide the Contracting Authority at least thirty (30) days prior written notice of policy cancellation or any changes to the insurance policy.
 - b. Loss Payee: Canada as its interest may appear or as it may direct.
 - c. Waiver of Subrogation Rights: Contractor's Insurer to waive all rights of subrogation against Canada as represented by Department of Fisheries, Oceans, and Coast Guard, and Public Works and Government Services Canada for any and all loss of or damage to the property however caused.

D5. Environmental Impairment Liability Insurance

1. The Contractor must obtain Contractor's Pollution Liability insurance, providing coverage for Asbestos Abatement, 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 \$1,000,000 per accident or occurrence and in the annual aggregate.
2. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
3. The Contractor's Pollution Liability insurance coverage (provided under the remarks section above) 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 as additional insured should read as follows: Canada, represented by Public Works and Government Services Canada.
 - b. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - c. Separation of Insureds: 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.
 - 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. Incidental Transit Extension: The policy must extend to losses arising from any waste, products or materials transported, shipped, or delivered via any transportation mode to a location beyond the boundaries of a site at which the Contractor or any entity for which the Contractor is legally liable is performing or has performed the operations described in the Contract.

- f. Litigation Rights: Pursuant to subsection 5(d) of the Department of Justice Act, S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

For the province of Quebec, send to:
Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

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

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

ANNEX "E" – WARRANTY

Warranty Procedure

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, a review of the warrantor's assertion will be done by the Technical Authority (TA) with the involvement of the Inspection Authority, as deemed necessary by Canada.

E3. Procedures

- a. Immediately after it becomes known to the vessel's staff that an equipment or system is performing below accepted standards or has become defective, the procedures for the investigation and reporting are as follows:
 - i. The vessel staff advises the Technical Authority when a defect, which is considered to be directly associated the refit work, has occurred.
 - ii. Upon review of Annex "A" Statement of Work and the Acceptance Document, the Technical Authority in consort with the vessel's staff is to complete the Tombstone Data and section 1 of the Appendix 1– Acceptance Certificate to Annex "E" – Warranty, found in Annex "R" and forward the original to the Contractor for review with a copy to the Contracting Authority. If the Contracting Authority or Technical Authority 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 this instance, the Contracting Authority 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 is to complete Sections

2 and 3 of the Warranty Claim Form, and return it to the TA or IA (as in paragraph E2.b, above) who confirms corrective action has been completed, and who then distributes the form to the Contracting Authority.

- b. In the event that the Contractor disputes the claim as a warranty defect, or agrees to share the responsibility, the Contractor is to complete Sections 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 the Contracting Authority. 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 Contracting Authority for action. Defective parts of equipment are to be retained pending settlement of the 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 the Contracting Authority.

E4. Liability

- a. Agreement between Canada 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. Canada accepts full responsibility for repair and overhaul of the item concerned; or
 - iii. The Contractor and Canada 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 E5.c, 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 warranty period. This alongside period is to provide time for warranty repair and check by the Contractor.
- b. 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.

ANNEX "F" – PROCEDURE FOR UNSCHEDULED WORK

F1. Purpose

The unscheduled Work procedure has been instituted for the following purposes:

- a. 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 must 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 F.3 b.
- 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 found in Annex "R" – Templates for refit and repair and will be the only form for authorizing all unscheduled work. The form (in excel format) to be filled in follows these instructions (Refer to Annex "R"- Templates, showing PWGSC 1379 template to complete in Excel). The Labor breakdown, materials and subcontractors involved with the additional work and supporting documents must be included and detailed on the subsequent two sheets that follow the form.

- b. Emergency measures required to prevent loss or damage to the vessel which would occur if this procedure were followed, must be taken by the Contractor on its own authority. The responsibility for the cost of such measures will 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 F-3c).
- 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 must 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 must provide copies of purchase orders and paid invoices for subcontracts and/or material, including stocked items. The Contractor must 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 must be noted. Upon request by the Contractor, the Contracting Authority will 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 F.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 must complete PWGSC 1379 form found in Annex "R"- Templates 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 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 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 the date of contract award 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.

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 duration 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 Overall Inspection and Test Plan (Overall ITP) comprising individual inspection and test plans for each SOW/Specification item (i.e. individual ITPs) of this Contract in accordance with the Quality Standard and its Quality Control Plan (QCP). The Overall ITP must be submitted to the Contracting Authority for review and amended by the Contractor to the satisfaction of the Technical Authority.
 - a. Each individual ITP must contain all inspection points identified in the Specification/SOW 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. Each individual ITP must contain references to the functional tests, and test & trials that must be witnessed by the Inspection Authority to ensure the quality of the Work.
 - c. A 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/SOW items followed by assigned sequence numbers for inspection processes within each Specification/SOW 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 in Annex "A" -Statement of Work. Test and trial documentation may also be included or referenced in Annex "A" -Statement of Work. An individual ITP is required for each specification item.

1. All individual 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 vessel's name;
 - b. the specification/SOW 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 Annex "A" -Statement of Work (this may need to be a reference to a separate, detailed step-by-step procedure of how each inspection, test, or trial is to be performed, including conformance parameters, accept/reject criteria and recording of results, deficiencies found and description of corrective action(s) required);
 - f. the tools and equipment required to accomplish the inspection (identified in each separate step-by-step procedure);
 - g. the environmental conditions under which the inspections are to be conducted and the tolerances on the inspection conditions (identified in each separate step-by-step procedure);
 - h. name and signature of the person who prepared the plan, date prepared and amendment level; and
 - i. 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/SOW must be approved by the Inspection Authority.
 - b. Amendments: Amendment action for the individual ITPs and their referenced documents 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/SOW 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 Overall ITP and its referenced documents 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 Contract.
2. The Contractor's Quality Control (QC) representative and the FSR when required must sign as having witnessed the inspection, test or trial on the inspection record, and on the Overall ITP. 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, Tests 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/SOW. 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 Canada.

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

2. Inspection:

- a. Upon receipt and acceptance of the Contractor's Overall 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 Contract. The Contractor must notify 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 Contract period against the provisions of the Annex "A" -Statement of Work 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 Inspection Authority.
- d. The Inspection Authority may issue an Inspection non-conformance report against the Work should incorrect or false QA/QC documentation be submitted to the Inspection Authority prior to inspection of 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. Upon completion of the Contract, 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/SOW, the Contractor must schedule, co-ordinate, perform and record all specified tests, trials and demonstrations required.
- b. Where the specification/SOW 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/SOW 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 Overall ITP and referenced documents 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, Contracting and Technical 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 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.
 - 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)	Known Work (including Milestone Payments) For Work as stated in Part 1 of the solicitation – GENERAL INFORMATION, article 1.2, specified in Annex "A" – Statement of Work and detailed in the attached ANNEX "H" – Financial Bid Presentation Sheet – Appendix 1 - Pricing Data Sheet (CCGS Terry Fox) for a FIRM PRICE of:	\$ _____
B)	Unscheduled Work - Estimated price for evaluation purposes only. There is no minimum or maximum amount of unscheduled work nor is there a guarantee of such unscheduled work in the Contract: B1. Unscheduled Engineering Work, per Annex "H", H2. 500 person-hours x \$ _____ per engineering hour for a PRICE of: B2. Unscheduled Engineering Work, per Annex "H", H3 - Time and One Half Overtime premium. 150 person-hours x \$ _____ per engineering hour for a PRICE of: B3. Unscheduled Engineering Work, per Annex "H", H3 - Double Time premium. 75 person-hours x \$ _____ per engineering hour for a PRICE of: B4. Other Unscheduled Work, per Annex "H", H2. 100,000 person-hours x \$ _____ per hour for a PRICE of: B5. Unscheduled Work, per Annex "H", H3 - Time and One Half Overtime premium. 10,000 person-hours x \$ _____ per hour for a PRICE of: B6. Unscheduled Work, per Annex "H", H3 - Double Time premium. 6000 person-hours x \$ _____ per hour for a PRICE of:	\$ _____ \$ _____ \$ _____ \$ _____ \$ _____ \$ _____
C)	Daily Service Fees - For evaluation purpose only as per Annex "H", article H4: Fifty (50) working days, on dock x \$ _____ firm daily service fee Sixteen (16) non-working days, on dock x \$ _____ firm daily service fee Fifty (50) working days, alongside x \$ _____ firm daily service fee Sixteen (16) non-working days, alongside x \$ _____ firm daily service fee	\$ _____ \$ _____ \$ _____ \$ _____
D)	Cost of Financial Security as per 6.2 and 7.13 Type of Financial Security (as per 6.2.1): _____	\$ _____
E)	Total Life Cycle Cost Analysis - For evaluation purpose only as per Annex "H" – Financial Bid Presentation Sheet – Appendix 1 - Pricing Data Sheet : TOTAL LIFE CYCLE COST (for evaluation purposes only) of:	\$ _____

F)	Vessel Transfer Cost - For evaluation purpose only as per Annex "H", article H6: Shipyard facility location _____	\$ _____
G)	PRICE FOR EVALUATION [A + B + C + D + E + F] for a PRICE FOR EVALUATION (applicable taxes excluded) of:	\$ _____

H2 Unscheduled Work

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

Authorized Unscheduled Engineering Work will be calculated as follows:

Number of hours (to be negotiated) x \$ ____ for the Contractor's firm hourly charge-out Engineering rate. The firm Unscheduled Engineering Work rate shall be a blended rate of all classes of engineering, related supervision and inclusive of all fringe benefits, overhead and profit.

Authorized Other 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 may include a mark-up of ten percent (10%) 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, Canada 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 percent (10%) 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 Engineering work, the Contractor will be paid the authorized overtime hours at the following charge-out engineering rates:

- a) Time and One Half**: \$ _____ per engineering hour;
- b) Double Time***: \$ _____ per engineering hour
- c) These rates shall be a blended rate of all classes of engineering, related supervision and inclusive of all fringe benefits, overhead and profit.
- d) These rates will remain firm for the duration of the Contract, including all amendments and are subject to audit if considered necessary by Canada.

For other 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
- c) These rates shall be a blended rate for all classes of labor, and foreperson and shall include all overheads, supervision and profit.
- d) 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.

- a) For a Working Day, on dock: \$ _____
- b) For a Non-Working Day, on dock: \$ _____
- c) For a Working Day, alongside: \$ _____
- d) For a Non-Working Day, alongside: \$ _____

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 vessel 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. Vessel services: include all costs for vessel services such as water, steam, electricity 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 Contractor'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 Contractor's facility alongside a mutually agreed safe transfer point, afloat and upright, and the Contractor 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.

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

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. Removals will be the responsibility of the Contractor, regardless if they are identified in the specification, except those removals not apparent when viewing the vessel or examining the drawings. The Contractor will also be responsible for safe storage of removed items and reinstallation of all items on completion of the Work. The Contractor will be responsible for replacement or repair (as deemed appropriate) of components damaged while in its custody, including during removal or reinstallation.
5. Sheltering, staging, crange and transportation: include the cost of all sheltering, staging including handrails, crange and transportation to carry out the Work as specified.

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

H6 Vessel Transfer Costs

1. The evaluation price must include the cost for transferring the vessel from its home port to the shipyard/vessel repair facility where the Work will be performed and the cost of transferring the vessel to its home port following completion of the Work, in accordance with the following:
 - a) The Bidder must provide the location of the shipyard/vessel repair facility where it proposes to perform the Work together with the applicable vessel transfer cost from the list provided under G6, paragraph 2 of this section, which shall be entered into Annex "H" – Financial Bid Presentation Sheet, H1 Price for Evaluation, item D;
 - b) If the list provided under H6, paragraph 2 of this section does not provide the shipyard/vessel repair location where the Bidder intends to perform the Work, the Bidder must advise the Contracting Authority of its proposed location for performing the Work in writing at least ten (10) calendar days prior to bid closing date. The Contracting Authority will confirm to the Bidder, in writing, at least five (5) calendar days before the bid closing date, the location of the shipyard/vessel repair and the applicable vessel transfer cost.

A bid that specifies a location for executing the Work which is not on the list under H6, paragraph 2 of this section and for which a notification in writing has not been received by the Contracting Authority as required, will be considered non-responsive.

2. Vessel information and list of shipyard/vessel repair facilities and applicable vessel transfer costs

Vessel: CCGS Terry Fox
Home Port: St. John's, NL

Transfer costs in the case of vessels transferred using a government delivery crew include the fuel cost at the vessel's most economical speed of transit and for unmanned refits only, crew transportation costs for the delivery crew based on the location of the vessel's home port and the shipyard/vessel repair facility. Crew transportation costs do not include any members of the delivery crew who remain at the shipyard/vessel repair facility in order to discharge Contract responsibility related to the vessel being transferred.

Transfer costs in the case of the vessels transferred unmanned by either commercial towing, railway, highway or other suitable means of transportation must be:

- i. included as part of the Bidder's financial bid in the case where the Bidder is responsible for the transfer; or
- ii. identified as the applicable vessel transfer cost, as given in the list below, in the case when Canada is responsible for the transfer.

Shipyard/Ship Repair Facility - Applicable Vessel Transfer Costs
Manned only: CCGS Terry Fox
Home Port: St. John's, NL

Shipyard / Ship Repair Facility		Applicable Vessel Transfer Cost (CDN \$)
Company	City	Transfer Cost Manned
Newdock St John's Dockyard Limited	St. John's, NL	0
Heddle Marine Service Inc.	St. Catherines, ON	191,199
Davie Industries	Quebec City, QC	150,194
Halifax Shipyard, Ltd.	Halifax, NS	90.015
Groupe Verreault Navigation Inc.	Les Méchins, QC	112,098
Groupe Ocean	Quebec City, QC	150,194

Proposed Drydocking Location: _____

ANNEX “H” – Appendix 1 – PRICING DATA SHEET

including FIRM PRICE OF KNOWN WORK (TABLE H1 (A)),

and TOTAL CYCLE COST for evaluation (TABLE H1 (F))

Electronic ‘Annex H Appendices’ to be filled in separately

ANNEX “H” – Appendix 2

Milestones (Price and Delivery)

Electronic ‘Annex H Appendices’ to be filled in separately

ANNEX "I" – VESSEL CUSTODY

I1 Vessel Custody

1. This Work is going to take place with the vessel "out of commission" and therefore in the care, control and custody of the Contractor.
2. An ACCEPTANCE CERTIFICATE – ASSUMPTION OF CUSTODY OF CANADIAN GOVERNMENT SHIPS BY CONTRACTORS (attached as Annex "I" - Appendix 1) must be completed as required and a copy passed to the Inspection Authority.
3. To facilitate this turnover, representatives of the Contractor and Canada must confirm the condition of the vessel.
4. A vessel condition report must be appended to the above noted Certificate and must be accompanied by colour photographs and/or video in either conventional or digital format.
5. When the vessel is to be returned to the care, control and custody of Canada, an ACCEPTANCE CERTIFICATE – RESUMPTION OF CUSTODY OF CANADIAN GOVERNMENT SHIPS BY THE CLIENT DEPARTMENT (attached as Annex "I" - Appendix 2) must be completed and a signed copy passed to Canada for distribution.

ANNEX "I" – Appendix 1 - ACCEPTANCE CERTIFICATE

ASSUMPTION OF CUSTODY OF CANADIAN GOVERNMENT SHIPS BY

CONTRACTORS ACCEPTANCE OF _____.

1. The undersigned, on behalf of the Canadian Coast Guard and of _____ acknowledge to have handed over and receive respectively CCGS Terry Fox for the purpose of refit, all in accordance with the terms and conditions of PWGSC Contract Number F7049-200041 and such documents which form part of said Contract.
2. It is mutually agreed by all parties that the condition report by compartment or area shall be considered as an addendum to this agreement, and shall be a valid document in the taking over of the vessel by the Contractor, even if the inspection and signing occur after the signing of the agreement but within the agreed ten (10) day period.

SIGNED AT _____ PROVINCE _____ ON

THE _____ DAY OF _____ (Month), 20__,

AT _____ HOURS.

FOR: _____
(Contractor)

FOR: _____
Department of Canadian Coast Guard

WITNESSED BY: _____
Public Works and Government Services
Canada

ANNEX "I" – Appendix 2 - ACCEPTANCE CERTIFICATE

ACCEPTANCE CERTIFICATE

RESUMPTION OF CUSTODY OF CANADIAN GOVERNMENT SHIPS BY THE

CLIENT DEPARTMENT

ACCEPTANCE OF _____.

1. The undersigned, on behalf of _____ and of the Canadian Coast Guard, acknowledge to have handed over and to have received respectively the CCGS Terry Fox, said vessel having been received by _____ on _____ (date), for the purpose of refit in accordance with the terms and conditions of PWGSC Contract Number F7049-200041.
2. It is mutually agreed by all parties that the liabilities and responsibilities of _____, as defined in Article 9 of PWGSC 1029 – Supplemental General Conditions for Ship Repairs, for a vessel out of commission, shall automatically cease as at _____ (hours) on _____ (date).
3. That effective from _____ (hours) on the _____ (date), Article 8 of PWGSC 1029 for a vessel in commission shall apply, and that responsibility of the care and protection of said vessel shall revert to Canada.

SIGNED AT _____ PROVINCE _____ ON THE _____ DAY
OF _____ (Month), 20__, AT _
_____ HOURS.

FOR: _____ (Contractor)

FOR: _____ (Canadian Coast Guard)

WITNESSED BY: _____ (Public Works and Government
Services Canada)

ANNEX "J"

GENERAL INFORMATION ON INDIGENOUS PARTICIPATION COMPONENT

An Indigenous Participation Component (IPC) is an activity which produces long-term benefits for Indigenous business, and which results from a particular procurement. IPCs must be categorized as either direct or indirect.

Benefit Objectives

The Contractor must seek and secure Indigenous business involvement primarily through subcontracting opportunities. The business activities proposed in support of this objective must be in the form of quantifiable transactions.

The purchase of goods and services from Indigenous businesses not directly related to the **CCGS Terry Fox VLE**, will be considered as indirect IPC. This objective must be in the form of quantifiable transactions.

Direct IPCs are preferable to indirect IPCs.

Direct benefits result from any part of the Work pertaining to the **CCGS Terry Fox VLE**. Direct IPCs must include, but are not be limited to:

- (a) subcontracting for goods, services and materials;
- (b) direct employment of Indigenous labour by the Contractor; and
- (c) Indigenous business involvement.

Direct benefits are preferable to indirect benefits, however in the context of IPC activities, "indirect" benefits may include contract opportunities not related to the CCGS Terry Fox VLE. For an example of "indirect benefits" please refer to Section 2.8 b) point iv.

DEFINITIONS:

The following definitions apply to the IPC Requirement of the Contract:

(i) Direct Benefits:

Direct Benefits are transactions incurred by the Contractor during performance of the Work that include:

a. Indigenous Business Subcontracting:

Subcontracting a portion of the Work, or goods or services required by the Contractor to deliver the Work, to a qualified Indigenous Business.

b. Indigenous Employment:

Full-time, Part-time and Casual employment of Indigenous persons.

c. Indigenous Training and Skills Development:

Training opportunities and skills development for Indigenous persons, such as on-the job training, or in-house training.

(ii) Indirect Benefits:

Indirect Benefits are relevant socio-economic measures, other than Direct Benefits, such as, but not limited to, specialized training, career development, scholarships, and community outreach programs to help local Indigenous communities meet their economic development needs.

(iii) IPC Transactions:

The total value of all transactions incurred by the Contractor on Direct and Indirect Benefits.

ANNEX "K"

INDIGENOUS PARTICIPATION COMPONENT CERTIFICATION FORMS

Part 1 – INDIGENOUS PARTICIPATION COMPONENT (IPC) CERTIFICATION

The Bidder agrees that no less than 1.5% of the Total Estimated Cost of the Contract must be subcontracted to Indigenous business(es). Refer to Example of acceptable Indigenous Participation Components under 2.8(b) and Annex "J" for definitions.

In respect of the Contract, no less than 1.5% of the Total Estimated Cost of the Contract must be performed by the Indigenous business, the Indigenous component(s) of a joint venture, an Indigenous subcontractor, or Indigenous individuals, and the Contractor must be able to demonstrate, at the time of audit, that it meets this requirement.

An Indigenous business can be a Band as defined by the Indian Act, or a sole proprietorship, a limited company, a cooperative, a partnership or a not-for-profit organization in which Indigenous persons have at least 51% ownership and control.

An Indigenous business could also consist of a joint venture made up of two or more Indigenous businesses, or an Indigenous business and a non-Indigenous business(es), provided that the Indigenous business(es) has at least 51% ownership and control of the joint venture.

The Bidder agrees that it will comply with the requirements above, and will meet all of its obligations under the Indigenous Participation Component and that this will be subject to audit by Canada.

If the Bidder fails to meet these requirements, the associated Milestone payments described in Table B1.1 Milestones (Price and Delivery) of Annex "B" – Basis of Payment, will not be released.

This Certification is executed and signed by duly authorized representatives of the Bidder.

DATE _____

NAME OF COMPANY _____

NAME AND TITLE OF PERSON SIGNING THE CERTIFICATION _____

SIGNATURE _____

Solicitation No. - N° de l'invitation
F7049-200041/B
Client Ref. No. - N° de réf. du client
F7049-200041

Amd. No. - N° de la modif.
File No. - N° du dossier
043mdF7049-200041

Buyer ID - Id de l'acheteur
043md
CCC No./N° CCC - FMS No./N° VME

Part 2 - INDIGENOUS PARTICIPATION COMPONENT PLAN CERTIFICATION

The Bidder acknowledges and agrees that it will submit an Indigenous Participation Component Plan within 2 Months after Contract Award, if awarded a contract.

The Indigenous Participation Component Plan must be submitted as a self-contained document and must provide the information described in Annex "L" of the Contract.

The Bidder agrees that it will comply with the requirements above, and will meet all of its obligations under the Indigenous Participation Component Plan and that this will be subject to audit by Canada, if awarded a contract.

This Certification is executed and signed by duly authorized representatives of the Bidder.

DATE

NAME OF COMPANY

NAME AND TITLE OF PERSON SIGNING THE CERTIFICATION

SIGNATURE

ANNEX "L"

THE INDIGENOUS PARTICIPATION COMPONENT (IPC) PLAN

No later than 2 months after Contract award, an Indigenous Participation Component (IPC) Plan must be provided to both the Contracting Authority and the IPC Authority. The plan must include the following factors:

IPC Format

The IPC Plan must address the following four areas:

- (a) Executive Summary;
- (b) Small Business Plan;
- (c) IPCs Management Plan; and
- (d) Detailed Transaction Sheets

Executive Summary

The executive summary must contain an integrated overview of the Contractor's total IPCs commitment. It must clearly demonstrate how the Contractor's IPCs commitments address the IPCs objectives, and how the objectives will be achieved through the proposed commitments.

The Contractor must provide a tabular presentation of the IPC. The presentation must include a summary of Direct IPCs Transactions.

Small Business Plan

The IPC Plan must include, in narrative format:

- (a) Small Business Subcontracting Plan - The Contractor must identify Indigenous business subcontractors that will be participating in the Contract, and describe in as much detail as possible, the Work to be performed by that company, including the dollar value which will correspond to the totals as noted within the detailed transaction sheets.
- (b) Supplier Development Plan - The Contractor must submit an Indigenous business supplier development plan that will identify opportunities, encouragement and assistance that the Bidder will provide to promote Indigenous business in areas such as technology transfer, investment, marketing assistance or management assistance. The objective should be to enable these firms to become ongoing suppliers.

The Contractor must include completed copies of the forms located in Annex "K" for each Indigenous business referenced in the IPC Plan.

Compliance with the certifications provided to Canada is subject to verification by Canada at any time. The Contracting Authority has the right to ask for additional information to verify the compliance with any certifications.

IPCs Management Plan

The IPC Plan must describe the methods by which the Contractor will implement, manage, monitor and report progress on its IPC activities, leading to the achievement of the proposed IPC commitments.

The Contractor must provide Indigenous Participation Component Reports describing the goals achieved as set forth in its IPC when it seeks milestone payments for the Indigenous Participation Component.

Solicitation No. - N° de l'invitation
F7049-200041/B
Client Ref. No. - N° de réf. du client
F7049-200041

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File No. - N° du dossier
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Detailed Transaction Sheets

The IPC Plan must include examples of the Detailed Transaction Sheets that will be used to report the progress of the Contractor on its IPC activities in the Indigenous Participation Component Reports. Suggested formats are provided in Annex "N" Indigenous Participation Component Reports.

ANNEX "M"

INDIGENOUS CERTIFICATION REQUIREMENTS

FORM 1

CERTIFICATION REQUIREMENTS FOR INDIGENOUS BUSINESS

NOTE TO CONTRACTOR: The following certification requirements apply to this contract. The Contractor is REQUESTED to have these certifications completed by the Indigenous Participant by having them complete the appropriate spaces below and the contractor is to provide the certifications to the Contracting Authority.

1. i) I, _____ (*Name of duly authorized representative or owner of the business*) hereby certify that _____ (*Name of business*) meets, and will continue to meet throughout the duration of the contract, the requirements for this program as set out in the attached document entitled "Requirements for the Set-Aside Program for Indigenous Business", which can be found under Appendix B of the following website: http://www.tbs-sct.gc.ca/pubs_pol/dcgpubs/contpolnotices/cpn_96-6-eng.asp, which document I have read and understand.

ii) The aforementioned business agrees to ensure that any subcontractor it engages with respect to the contract will, if required, satisfy the requirements set out in "Requirements for the Set-Aside Program for Indigenous Business"

iii) The aforementioned business agrees to provide to Canada, information to substantiate a subcontractor's compliance with this program.

PLEASE CHECK THE APPLICABLE BOXES IN 2 AND 3 BELOW

2. i) The aforementioned business is an Indigenous business which is a sole proprietorship, band, limited company, cooperative, partnership or not-for-profit organization, []

OR

ii) The aforementioned business is a joint venture between two or more Indigenous businesses or an Indigenous business and a non-Indigenous business. []

3. The Indigenous business or businesses have:

i) fewer than six full-time employees []

OR

ii) six or more full-time employees []

4. The aforementioned business agrees to immediately furnish to Canada, such evidence as may be requested by Canada from time to time, corroborating this certification. Such evidence must be open to audit during normal business hours by a representative of Canada, who may make copies and take extracts from the evidence. The aforementioned business agrees to provide all facilities for audits and to furnish information requested by Canada with respect to the certification.

5. It is understood that the civil consequences of making an untrue statement, or of not complying with the requirements of the Program or failing to produce satisfactory evidence to Canada regarding the requirements of the Program, may include: disqualification of the business from participating in future contracts under the Program;

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and/or termination of the contract. In the event that the contract is terminated because of an untrue statement or non-compliance with the requirements of the Program, Canada may engage another contractor to complete the performance of the contract and any additional costs incurred by Canada shall, upon the request of Canada be borne by the aforementioned business.

6. Date: _____ Signature: _____

(Duly authorized representative of business)

Place:

Title:

For:

Name of Business

FORM 2

INDIGENOUS OWNER/INDIGENOUS EMPLOYEE OR INDIGENOUS SUBCONTRACTOR CERTIFICATION

1. I, _____, am an
(Name)

owner and/or full-time employee or subcontractor of _____ ,
(Name of business)

and an Indigenous person, as described in Annex "K" Part 1 entitled " Indigenous Participation
CERTIFICATION REQUIREMENTS FOR INDIGENOUS BUSINESS".

2. I certify that the above statement is true and consent to its verification upon the request of Canada.

(Date)

(Place)

(Signature of owner and/or employee)

ANNEX "N"

INDIGENOUS PARTICIPATION COMPONENT REPORTS

When seeking the Indigenous Participation Components Milestones, as described in Annex "B", the Contractor must deliver the following to the Indigenous Participation Component's (IPC) Authority, the Contracting Authority, and the Technical Authority for review:

- i) An IPC Report, with supporting calculations, that detail the following for that milestone:
 - a) A breakdown of the IPC Transactions and their total value; and,
 - b) A detailed breakdown of the Direct Benefits and Indirect Benefits incurred as described in the table below.
- ii) Supporting documentation certifying that the Indigenous firms stated in the IPC Report meet the definition of an Indigenous Business, and that Indigenous employees stated in the IPC Report meet the definition of Indigenous Persons as defined in the respective forms in Annex M.
- iii) Invoices, pay stubs, receipts, and/or any other documentation that provides evidence that the Transactions claimed in the IPC Report were made in the amount claimed.

Detailed Transaction Sheets

The Detailed Transaction Sheet must be used to show each Direct IPC transaction completed. Other transactions that do not fit into the Direct IPC category must also be shown. In the context of IPC activities, "indirect" IPC Transactions are contractual business activities that are not associated with the CCGS Terry Fox VLE, but contribute significantly to the goals and objectives of the IPC.

Transaction Number Contract	Company Name and Location of Work	Description of Work	Canadian Person Years	Value \$ CDN
Would be transaction # such as contract #	Name of Company or Individual	Detail of what the work is: Operator, Supplier, etc.	Number of People hired as	Value + taxes achieved
Totals				

ANNEX "O"
DELIVERABLES/CERTIFICATIONS

O1 Deliverables Checklist

Deliverables that must be submitted with the Bidder's bid to be evaluated as responsive are summarized below. The checklist is a tool intended to assist the Bidder to assemble its bid.

The following are mandatory requirements of the solicitation and the Bidder's bid will be evaluated against the requirements as defined herein. The Bidder must meet each of these requirements to be considered responsive.

Note that the content in the solicitation and its other Annexes will supersede this list if any omissions or inconsistencies are present.

Item	Description	Completed and Included
1	Request for Proposal document part 1 page 1 completed and signed (include in Section III)	
2	Completed Annex "H" Financial Bid Presentation Sheet", H1 through to H6 (include in Section II) and Annex "H", Appendix 2 – Milestones (Price and Delivery) dates column.;	
3	Completed Pricing Data Sheet, Annex "H", Appendix 1 (include in Section II);	
4	Completed Annex "P" Mandatory Technical Requirements (include in Section I, as well as identified supporting evidence for compliance)	
5	Completed Annex "Q" Additional Information on Selected Equipment" (include completed in Section III)	
6	Changes to Applicable Laws as per clause 2.4. If any, indicate the substitute name of a Canadian province or territory in Section III of the Bid submission.	
7	Integrity Provisions –section 5.1.1, if applicable, and section 5.3.1 (include in Section III);	
8	Federal Contractors Program for Employment Equity, Complete section 5.3.2 (include in Section III);	
9	Completed IPC Certification forms provided at Annex "K" – IPC Certification Forms Part 1 and Part 2 as per Section 5.2 (include in Section III);	
10	Proof of good standing with Worker's Compensation Board, as per clause 6.5 (include in Section III);	
11	Proof of valid Labor Agreement or similar instrument covering the work period, as per clause 6.6 (include in Section III);	
12	Fueling and Disembarking Procedures, as per clause 6.8 (include in Section III);	
13	Valid ISO 9001-2015 Certification, as per clause 6.9 (include in Section III);	
14	Objective evidence of documented Health and Safety System, as per clause 6.10 (include in Section III);	
15	Objective evidence of documented Fire Protection, Fire Fighting and Training Procedure, as per clause 6.11 (include in Section III);	

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16	Insurance Requirements, as per clause 6.13 (include in Section III);	
17	Example of its Quality Control Plan, per clause 6.17 (include in Section III);	
18	Details of Environmental Emergency Response Plan, Details of Formal Environmental Training as per Clause 6.19 (include in Section III);	

O2 Deliverables Checklist after Contract Award (and prior to Refit Kickoff Meeting)

Item	Description	Reference	Due By
1	Contract Financial Security	Clause 7.13	5 working days after contract award
2	The Contractor's Quality Control Plan	Clause 7.21	5 working days after contract award
3	Insurance requirements as per Annex "D"	Clause 7.11 and Annex "D"	10 Working Days after contract award
4	The list of Government specialized loaned equipment that the Contractor intends to request.	Clause 7.28	10 working days after contract award

O3 Deliverables Checklist Prior to Contract Award (If Requested)

Item	Description	Reference	Due By
1	Financial Capability	Clause 6.1	Within 5 working days of the request
2	Commitment letters from specified subcontractors indicating the number of resources available for different periods	Clause 6.7	Within 10 working days of the request
3	Confirmation of personnel and names to add to Contract	Clause 7.20	Within 5 working days of the request

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ANNEX P
Mandatory Technical Criteria

In their technical bid, Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that Bidders address and present topics in the order of the evaluation criteria under the same headings (indicate a Bid Cross Reference page/section in the submission). To avoid duplication, Bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

No.	Requirement	Ref	Evaluation Criteria	Bid Cross-ref.
M1	Shipyard Operational capability	2.7	The Bidder's proposed shipyard must be operational all year and able to accommodate the CCGS Terry Fox.	
			The Bidder must provide: a. a list of all vessel refit projects completed at the proposed shipyard over the last 24 months prior to the date of bid closing; and b. start date and end date (month, year) or indicate in progress, where applicable, for all projects listed in a.	
M1B	Shipyard - Location	6.4	The Bidder's proposed shipyard must be operational in Eastern Canada (ON, QC, NB, NS, NL, PE)	
			The Bidder must supply: a. The name and location of docking facility; and b. The proposed drydock and alongside location.	
M2	Docking Facility Certification	6.4	The Bidder's proposed dry-docking facility must have: a. Valid certification of the capacity and condition of the docking facility to be used for the Work. The certification must be provided by a recognized consultant, professional engineer, or classification society and must have been issued within the past two years prior to the date of bid closing; b. the capacity to remove the CCGS Terry Fox from the water and subsequently return in the water.	

			The Bidder must provide the certificate required in a. and demonstrate compliance with b. in its bid.	
M3	Docking Facility capacity for engine removal and installation	6.4	The Bidder must include an engine removal and installation plan, supported by means of drawings and calculations, that demonstrates: the shipyard's capability to remove the current engines, and to replace them with the proposed engines.	
			The Bidder must demonstrate the docking facility capacity requirements by providing: a. A drawing with the crane location and indicating sufficient access for removal; and b. an engine removal and installation plan	
M4	Docking Facility crane capacity	6.4	The Bidder must provide a crane of sufficient capacity for equipment manipulation, such as engine removal and installation, and any other tonnage required to complete the Work in Annex "A" – Statement of Work. The capacity must be sufficient to handle the Bidder's proposed, noted engine weight.	
			The Bidder must provide: a. the crane specifications indicating capacity and reach capability; and b. A copy of the latest crane inspection certificate.	
M5a	Shipyard Experience	6.4	The Bidder's shipyard must have conducted refits on five vessels of a similar size (vessels' gross tonnage is at least 3800 t) in the last five years prior to bid closing.	
			The Bidder must provide five customer letters of reference, produced on the customers' letterhead and including: a. The vessel name and its gross tonnage; b. a description of the work performed; c. the dates (month and year) in which the contract was awarded and completed; d. relevant customer contact information (i.e. contract name, phone number and email address); and e. the signature of an authorized representative of the customer.	
M5b	Shipyard Experience	6.4	The Bidder's shipyard must have conducted vessel refits valued above \$5M on at least two vessels in the last five years prior to bid closing.	

			<p>The Bidder must provide the following information for each refit:</p> <ul style="list-style-type: none"> a) The vessel name; b) Brief description of the work performed; c) The start and end date (month and year) of the refit (or in progress, if applicable); and d) The refit value. 	
M5c	Shipyard Experience	6.4	The Bidder's shipyard must have conducted vessel refits that lasted at least six months, on two vessels in the last five years prior to bid closing.	
			<p>The Bidder must provide the following information for each refit:</p> <ul style="list-style-type: none"> a) The vessel name; b) Brief description of the work performed; c) The start and end date (month and year) of the refit (or in progress, if applicable). 	
M6	Proposed VLE Schedule	6.7	The Bidder's proposed Preliminary Work Schedule for the VLE work period must work in cohesion with the dates provided in Annex "H", Appendix 2 – Milestones (Price and Delivery Schedule).	
			<p>The Bidder must provide a Preliminary Work Schedule that must include (as a minimum) target dates for each of the following significant events:</p> <ul style="list-style-type: none"> a) Commencement date of Vessel Work as defined at Article 7.3.2; b) Period to be in Dry-Dock; c) Start and completion dates for each SOW Item in Part B of Annex "A" – Statement of Work; d) FSR Scheduling; e) Completion date of Vessel Work as defined at Article 7.3.2; f) Period of Care & Custody by the shipyard; g) Resumption of custody by Canada; h) Dock and Sea Trials Period. <p>For each SOW item in Part B of Annex "A" – Statement of Work, Part B, the Bidder's Preliminary Work Schedule must show:</p> <ul style="list-style-type: none"> 4. the main work breakdown structure (WBS) to the system and component level 	

			<p>(WBS 3);</p> <p>5. the workforce deployment plan, or labour loading, for the following disciplines:</p> <ul style="list-style-type: none"> • Steelwork; • Piping; • Mechanical; • Electronics; • Controls/Instrumentation. <p>The Bidder must indicate which intended labour resources will satisfy the proposed labour loading for each discipline i.e. are the resources supplied in-house, or from subcontractor(s) and suppliers. Indicate subcontractor names and specify any suppliers.</p> <p>The Bidder must fill in the Annex H, Appendix 2 – Milestones (Price and Delivery) dates, in cohesion with its Preliminary Work Schedule.</p>	
M7	Subcontractors	6.16	List the subcontractors, whose total estimated cost for the duration of the Contract exceeds \$50,000.	
			<p>The Bidder must provide a list of all subcontractors. The list must include:</p> <ol style="list-style-type: none"> a. The name of the subcontractor; b. the related SOW item in Part B of Annex "A" – Statement of Work c. a description of the items to be purchased for the related SOW item, Annex "A" – Statement of Work, Part B; d. a description of the Work to be performed for the related SOW item in Annex "A": – Statement of Work, Part B; and e. the location of the performance of the Work. 	
M8	Shipyard Bidder welders and sub-contracted welders	6.14	The shipyard Bidder's welders and any welding sub-contractors must be certified to CSA W47.1 by the Canadian Welding Bureau.	
			<p>The Bidder must provide proof of welding certification, by submitting:</p> <ol style="list-style-type: none"> a. a current letter of validation for the shipyard welders and for subcontractors performing welding. The Scope on the 	

			letter must apply to a marine scope for compliance with Annex M of CSA Standard W47.1 (2019).	
M9	Project Manager (PM)	6.15	The Bidder's proposed PM must be a different individual from the individuals proposed in sections M10 to M16.	
			The Bidder's proposed PM must have : a. a minimum of 10 years of experience as a Project Manager in the last 12 years prior to the date of bid closing; b. completed a minimum of two marine refit or vessel construction projects (or mechanical industrial projects), each valued at greater than \$5,000,000.00, within the last seven years prior to the date of bid closing; c. completed a minimum of two marine refit projects (or mechanical industrial projects), each having lasted a minimum of four months, within the last three years prior to the date of bid closing.	
			The Bidder must provide a CV for the proposed PM which demonstrates compliance with a., b. and c., by identifying each marine refit project (or mechanical industrial project) managed by the proposed PM, and providing, as a minimum, the following information: • Project name; • Project value; • Project description, including role and responsibilities as PM, and vessel type; • Project start date and delivery date (month, year).	
M10	Single System Supplier Integrator (SSSI)	6.15, Annex A – Statement of Work, Part A, GR 12.0.	The Bidder's proposed SSSI must be a different individual from the individuals proposed in sections M9 and M11 to M16.	
			The Bidder's proposed SSSI must have : a. a minimum of five years of experience supervising or managing portions of marine refit or vessel construction projects (or mechanical industrial projects) in the last eight years prior to the date of bid closing;	

			<p>b. completed a minimum of two marine refit or vessel construction projects (or mechanical industrial projects), each valued at greater than \$4,000,000.00, within the last six years prior to the date of bid closing; and</p> <p>c. completed a minimum of two marine refit projects (or mechanical industrial projects), each having lasted a minimum of four months, within the last three years prior to the date of bid closing.</p>	
			<p>The Bidder must provide a CV for the proposed SSSI which demonstrates compliance with a., b. and c., by identifying each marine refit project (or mechanical industrial project) involving the proposed SSSI, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Project name; • Project value; • Project description, including role and responsibilities, and vessel type; • Project start date and delivery date (month, year). 	
M11	Quality Assurance, Inspection and Testing Manager	6.15	<p>The Bidder's proposed Quality Assurance Inspection and Testing Manager must be a different individual from the individuals proposed in sections M9, M10, and M12 to M16. The Work of the Quality Assurance Inspection and Testing Manager is set out in Annex A – Statement of Work .</p>	
			<p>The Bidder's proposed Quality Assurance Inspection and Testing Manager must have:</p> <ol style="list-style-type: none"> Valid certificate or diploma of a two year technical program offered by a recognized technical institute or a certificate of registration as a technician with a recognized provincial, state, or federal (national) licensing body; Valid certificate or diploma for training related to ISO registered system referenced in section 6.9; and a minimum of eight years of experience conducting technical inspections on marine vessels or marine platforms within the last 12 years prior to the date of bid closing. 	

			<p>The Bidder must provide the certificate or diploma required in a. and b., in addition to the CV for the proposed Quality Assurance Inspection and Testing Manager which demonstrates compliance with the requirements found in c., by identifying each project on which testing inspections on marine vessels or marine platforms was conducted, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Project name; • Project description, including role and responsibilities as Quality Assurance Inspection and Testing Manager; • Project start date and delivery date (month, year). 	
M12	Schedule Planner	6.15	<p>The Bidder's proposed Schedule Planner must be a different individual from the individuals proposed in sections M9 to M11, and M13 to M16. The Schedule Planner is responsible for the production and upkeep of the Work Schedule.</p>	
			<p>The Bidder's proposed Schedule Planner must :</p> <p>a. possess a university degree in engineering or applied science and possess a minimum of five years of experience determining work schedules and work planning for marine refits or for industrial projects within the last 8 years prior to bid closing;</p> <p>—OR—</p> <p>a. possess a minimum of seven years of experience determining work schedules and work planning for marine refits or for industrial projects within the last 10 years prior to bid closing; and</p> <p>b. possess a minimum of three consecutive years of experience in the last 5 years prior to bid closing, utilizing a commercially available project management software to developed work schedules for marine refits or for industrial projects, that break the work down to the system and component level and include the schedule's critical path;</p>	
			<p>The Bidder must provide the certificate or diploma required in a., in addition to the CV for the proposed Schedule Planner which demonstrates compliance with the requirement</p>	

			<p>found in a. and b. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Place of work; • Period of work (month, year); • Description of tasks including role and responsibilities. <p>In addition, the Bidder must provide an example of a schedule demonstrating the requirements of b. that was created and maintained by the individual.</p>	
M13	Vessel Supervisor/ Superintendent	6.15	<p>The Bidder's proposed Vessel Supervisor/ Superintendent must be a different individual from the individuals proposed in sections M9 to M12, and M14 to M16.</p>	
			<p>The Bidder's proposed Vessel Supervisor/ Superintendent must have :</p> <ul style="list-style-type: none"> a. a minimum of 10 years of experience as a Vessel Supervisor in the last 12 years prior to the date of bid closing; b. supervised a minimum of three marine refit or vessel construction projects, each valued at greater than \$2,500,000.00, within the last seven years prior to the date of bid closing; c. completed a minimum of two marine refit projects or vessel construction projects, each having lasted a minimum of four months, within the last three years prior to the date of bid closing. 	
			<p>The Bidder must provide a CV for the proposed Vessel Supervisor/ Superintendent which demonstrates compliance with a., b. and c., by identifying each marine refit project involving the proposed Vessel Supervisor/ Superintendent, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Project name; • Project value; • Project description, including role and responsibilities as Vessel Supervisor/ Superintendent, and vessel type; • Project start date and delivery date (month, year). 	

M14	Safety Officer / Occupational Health & Safety Specialist (OHSS)	6.15	The Bidder's proposed OHSS must be a different individual from the individuals proposed in sections M9 to M13, M15 to M16.	
			<p>The Bidder's proposed OHSS must have:</p> <ol style="list-style-type: none"> A university degree from an accredited university or a college diploma from an accredited college in occupational health, safety or a related technical field and a minimum of two years of experience as an OHSS for marine refit projects or mechanical industrial projects, including involvement in at least one formal Safety Analysis; <p>—OR—</p> <ol style="list-style-type: none"> A minimum of four years of experience as an OHSS for marine refit projects or mechanical industrial projects, including involvement in at least one formal Safety Analysis. 	
			<p>The Bidder must provide the certificate or diploma or accreditation required in a. (if applicable) in addition to the CV for the proposed OHSS which demonstrates compliance with the requirement found in a. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> Place of work; Period of work (month, year); Description of tasks including role and responsibilities; Safety Analysis performed by the proposed individual. 	
M15	Document Control Specialist	6.15	The Bidder's proposed Document Control Specialist must be a different individual from the individuals proposed in sections M9 to M14, and M16.	
			<p>a. The Bidder's proposed Document Control Specialist must have:</p> <p>-a minimum one year diploma in formal secretarial/clerical training offered by a recognized post secondary institute and possess a minimum of one year clerical and document control management experience within the last</p>	

			three (3) years prior to bid closing; —OR— -a high school diploma or equivalent and possess a minimum of three years clerical and document control management experience within the last seven years prior to bid closing.	
			The Bidder must provide the certificate or diploma or accreditation required in a. in addition to the CV for the proposed Document Control Specialist which demonstrates compliance with the requirement found in a. by identifying the experienced gained, and providing, as a minimum, the following information: <ul style="list-style-type: none"> • Place of work; • Period of work (month, year); • Description of tasks including role and responsibilities. 	
M16	Shipyard Cost Estimation Specialist	6.15	The Bidder's proposed Shipyard Cost Estimation Specialist must be a different individual from the individuals proposed in sections M9 to M15.	
			The Bidder's proposed Shipyard Cost Estimation Specialist must: <p>a. possess a university degree in engineering or applied science, or must hold a provincial, state, or federal (national) licence to practice as a professional engineer); and</p> <p>b. possess a minimum of five years of experience performing engineering cost estimates for marine related equipment and/or platforms within the last 10 years;</p> <p>—OR—</p> <p>a. possess a minimum of seven years of experience as a Cost Estimator Specialist; and</p> <p>b. have completed a minimum of three years of marine refit experience.</p>	
			The Bidder must provide the certificate or diploma or accreditation required in a. (if applicable) in addition to the CV for the proposed Shipyard Cost Estimation Specialist which demonstrates compliance with the requirement found in a. and b. by identifying the experienced gained, and providing, as a minimum, the following information: <ul style="list-style-type: none"> • Place of work; • Period of work (month, year); 	

			<ul style="list-style-type: none"> Description of tasks including role and responsibilities. 	
M17	Engineering capability – Engineering Team	6.15	<p>The Bidder must have an in-house engineering service, or intend to enter into contract with a Canadian Marine Engineering Firm(s) that has (have) developed and implemented one Classification Society Approved vessel integration and installation Package for the renewal or the installation of a new vessel major equipment of a minimum weight of 20 tons.</p>	
			<p>The Bidder must provide for itself or for each firm that it intends to subcontract with, one example of a Classification Society Approved vessel integration and installation package as set out immediately above that must at a minimum include documentation supporting the following:</p> <ol style="list-style-type: none"> Specifications for vessel modifications and major equipment installations with related drawings that address at a minimum the following: <ol style="list-style-type: none"> Class Approved Vessel Electrical Integration Packages Specifications; Class Approved Vessel's Structural Modifications Specifications; Class Approved Equipment installation Specifications; and Class Approved Inspections, Set to Work Test and Trial Plans, Procedures and Reports. Review of the vessel's stability with major equipment installed, the required structural modifications made and production of a new Intact Stability Book for the vessel. <p>Where the Bidder intends to enter into contract with Canadian Marine Engineering Firm(s), the Bidder must provide in addition to the information required immediately above, the following information on each of the Engineering Firm(s):</p> <ol style="list-style-type: none"> Marine Engineering Firms' name(s). 	
<p>The Bidder must provide names and CVs of the eight key individuals that form part of the Engineering Team who will do design Work as set out in Annex "A" – Statement of Work .</p>				

The key individuals are the names expected to be on deliverables such as drawings, specifications, manuals, reports, and instructions.
The Bidder's Team must include a minimum of eight key individuals identified in M17a to M17h. The eight individuals must all be different from those proposed in sections M9 to M16.

M17a	1) Senior Naval Architect Engineer	6.15	<p>The Bidder's proposed Senior Naval Architect Engineer must:</p> <ul style="list-style-type: none"> a. Possess a university degree in naval architecture engineering; b. Hold a provincial, state, or federal (national) licence to practice as a professional engineer; and c. Possess a minimum of 10 years of experience in naval architecture within the last 15 years prior to bid closing. 	
			<p>The Bidder must provide a copy of the certificate or diploma and accreditation required in a. and b., in addition to the CV for the proposed Senior Naval Architect Engineer which demonstrates compliance with the requirement found in c. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Place of work; • Period of work (month, year); • Description of tasks including projects worked on, role and responsibilities. 	
M17b	2) Senior Marine Systems Engineer	6.15	<p>The Bidder's proposed Senior Marine Systems Engineer must:</p> <ul style="list-style-type: none"> a. Possess a university degree in mechanical or marine systems engineering; b. Hold a provincial, state, or federal (national) licence to practice as a professional engineer; and c. Possess a minimum of 10 years of experience in marine systems within the last 15 years prior to bid closing. 	
			<p>The Bidder must provide a copy of the certificate or diploma and accreditation required in a. and b., in addition to the CV for the proposed Senior Marine Systems Engineer which demonstrates compliance with the requirement found in c. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Place of work; • Period of work (month, year); 	

			<ul style="list-style-type: none"> Description of tasks including projects worked on, role and responsibilities. 	
M17c	3) Senior Marine Engineer	6.15	<p>The Bidder's proposed Senior Marine Engineer must:</p> <p>a. Possess a Transport Canada certificate of competency as a First Class Marine Engineer; and</p> <p>b. Possess a minimum of five years of experience in a shore-based establishment within the 10 years prior to bid closing.</p>	
			<p>The Bidder must provide a copy of the certificate required in a., in addition to the CV for the proposed Senior Marine Engineer which demonstrates compliance with the requirement found in b. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> Place of work; Period of work (month, year); Description of tasks including projects worked on, role and responsibilities. 	
M17d	4) Senior Electrical Engineer	6.15	<p>The Bidder's proposed Senior Electrical Engineer must:</p> <p>a. Possess a university degree in electrical engineering;</p> <p>b. Hold a provincial, state, or federal (national) licence to practice as a professional engineer; and</p> <p>c. Possess a minimum of t10 years of experience in electrical engineering within the last 15 years prior to bid closing.</p>	
			<p>The Bidder must provide a copy of the certificate or diploma and accreditation required in a. and b., in addition to the CV for the proposed Senior Electrical Engineer which demonstrates compliance with the requirement found in c. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> Place of work; Period of work (month, year); Description of tasks including projects worked on, role and responsibilities. 	
M17e	5) Senior Controls and Instrumentation Engineer	6.15	<p>The Bidder's proposed Controls and Instrumentation Engineer must:</p> <p>a. Possess a university degree in electrical, instrumentation or electronics engineering;</p>	

			<p>b. Hold a provincial, state, or federal (national) licence to practice as a professional engineer; and</p> <p>c. Possess a minimum of 10 years of experience in controls and instrumentation within the last 15 years prior to bid closing.</p>	
			<p>The Bidder must provide a copy of the certificate or diploma and accreditation required in a. and b., in addition to the CV for the proposed Senior Controls and Instrumentation Engineer which demonstrates compliance with the requirement found in c. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Place of work; • Period of work (month, year); • Description of tasks including projects worked on, role and responsibilities. 	
M17f	6) Senior Mechanical Draftsperson	6.15	<p>The Bidder's proposed Senior Mechanical Draftsperson must:</p> <p>a. Possess a minimum two year technical program diploma offered by a recognized technical institute;</p> <p>—OR—</p> <p>a. Be registered as a technician with a recognized provincial, state, or federal (national) licensing body;</p> <p>—AND—</p> <p>b. Possess a minimum of three years of mechanical engineering drafting experience within the last five years prior to bid closing;</p> <p>c. Possess a minimum of one year of drafting experience within the marine field within the last five years prior to bid closing; and</p> <p>d. Possess a minimum of one (1) year of experience in Computer Aided Design (CAD) within the last three (3) years prior to bid closing.</p>	
			<p>The Bidder must provide a copy of the certificate or diploma or accreditation required in a., in addition to the CV for the proposed Senior Draftsperson which demonstrates compliance with the requirements found in b., c. and d. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Place of work; 	

			<ul style="list-style-type: none"> • Period of work (month, year); • Description of tasks including projects worked on, role and responsibilities. 	
M17g	7) Senior Electrical Draftsperson	6.15	<p>The Bidder's proposed Senior Electrical Draftsperson must:</p> <p>a. Possess a minimum two year technical program diploma offered by a recognized technical institute;</p> <p>—OR—</p> <p>a. Be registered as a technician with a recognized provincial, state, or federal (national) licensing body;</p> <p>—AND—</p> <p>b. Possess a minimum of three years of electrical engineering drafting experience within the last five years prior to bid closing;</p> <p>c. Possess a minimum of one year of drafting experience within the marine field within the last five years prior to bid closing; and</p> <p>d. Possess a minimum of one year experience in Computer Aided Design (CAD) within the last three years prior to bid closing.</p>	
			<p>The Bidder must provide a copy of the certificate or diploma or accreditation required in a., in addition to the CV for the proposed Senior Draftsperson which demonstrates compliance with the requirements found in b., c. and d. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Place of work; • Period of work (month, year); • Description of tasks including projects worked on, role and responsibilities. 	
M17h	8) Cost Estimation Specialist	6.15	<p>The Bidder's proposed Cost Estimation Specialist must:</p> <p>a. Possess a university degree in engineering or applied science, or hold a provincial, state, or federal (national) licence to practice as a professional engineer; and</p> <p>b. Possess a minimum of five years of experience performing engineering cost estimates for marine or industrial related equipment or platforms within the last 10 years;</p> <p>—OR—</p>	

			<p>a. Possess a minimum of seven years of experience as a Cost Estimator Specialist; and</p> <p>b. Have completed a minimum of three years of marine refit experience.</p>	
			<p>The Bidder must provide the certificate or diploma or accreditation required in a. (if applicable) in addition to the CV for the proposed Document Control Specialist which demonstrates compliance with the requirement found in a. and b. by identifying the experienced gained, and providing, as a minimum, the following information:</p> <ul style="list-style-type: none"> • Place of work; • Period of work (month, year); • Description of tasks including role and responsibilities. 	
M18	Procurement Team	6.15	<p>The Bidder must provide two Procurement Specialists who will be purchasing equipment itemized in Annex "H" – Appendix 2 -Milestones (Price and Delivery), as specified in Annex "A" - Statement of Work. Each individual must:</p> <p>a. Possess a university degree in any field or a college program in procurement, finance, economics, commerce, accounting or materiel management and a minimum of two years of marine or industrial experience in a procurement and finance related activity within the last five years prior to bid closing;</p> <p>–OR–</p> <p>a. Possess a minimum of eight years of marine or industrial experience in a procurement and finance related activity within the last 10 years prior to bid closing.</p> <p>–AND–</p> <p>b. have handled the procurement of a component valued at a minimum of 10 million dollars during their experience.</p>	
			<p>The Bidder must provide the certificate or diploma or accreditation required in a. (if applicable) in addition to the CV for each proposed Procurement Specialist which demonstrates compliance with the requirement found in a. by identifying the experienced gained, and providing, as a minimum, the following information:</p>	

			<ul style="list-style-type: none"> Place of work; Period of work (month, year); Description of tasks including role and responsibilities, <p>In addition, the Bidder must provide a copy of two Purchase Orders (customer information redacted)), one for each of the proposed Supply Specialists as demonstration of requirement b.</p>	
M19a	Proposed Main Engine service	Annex "A" – Statement of Work, Part B, item 12.1	The Bidder's proposed Main Engine must have experience on a rough service vessel (i.e. on and off shore tug, ice breaker, or ferry) for at least five consecutive years in the last 10 years.	
			The Bidder must provide a copy of the proposed engine certification from a Class Society recognized by Canada and a letter of reference from a purchaser of the proposed engine, indicating that the engine is being used in rough service for five consecutive years in the last 10 years prior to bid closing.	
M19b	Propulsion Machinery Equipment (PME) component parts	Annex "A" – Statement of Work, Part B, item 12.1	The following PME component parts: the four main engines and clutches, the two gearboxes, and any intermediate connections, shaft generator, switchboards, associated control system and alarm & monitoring system, must all have their mechanical parts available for a minimum of 15 years.	
			The Bidder must provide, from each different component manufacturer, a letter indicating a guarantee of provision of all associated mechanical parts for the components listed above for 15 years after bid closing.	
M19c	PME manufacturer experience	Annex "A" – Statement of Work, Part B, item 12.1	PME equipment component manufacturer must have a minimum of 10 years of experience in the designing, manufacturing and commissioning of the Marine Propulsion equipment component.	
			The Bidder must provide a reference from each different PME component manufacturer (i.e. a link from their website, a supplier brochure document, or a letter directly from the supplier on supplier letterhead) confirming a minimum of 10 years of experience supplying PME prior to bid	

			closing, in the designing, manufacturing and commissioning of the Marine Propulsion equipment component.	
M19d	PME supplier after service and support	Annex "A" – Statement of Work, Part B, item 12.1	The Bidder must demonstrate that the proposed PME manufacturer (or manufacturers) is (are) capable of providing after service support specific to the make and model of the proposed PME components.	
			The Bidder must provide evidence from each different component PME Manufacturer, in the form of a letter with the supplier's letterhead, that it can provide the following support: 1. Provide 24 hours/7 days phone technical support for the PME in English; 2. Provide workshop services for overhaul, calibration and testing of components within Eastern Canada (NS, NB, PE, NL); 3. Provide technicians' presence within 24 hours of Newfoundland and their workshop, to assist with repairs, maintenance and training; 4. Provide supplier parts' storage for one set of International Association of Classification Societies (IACS) spare parts and frequently used items, such as fuel and lube oil filters, fuel injector nozzles, and seal kits; 5. Provide all other parts, not stored, within 30 calendar days of order; and 6. Provide logistical support chains (sales office) within Canada.	
M19e	Classification Society for PME and associated systems	Annex "A" – Statement of Work, Part B, item 12.1	The Bidder must provide the name of the Classification Society that will provide the Approval Certificates for design and fabrication according to the Class Rules and Regulations applicable to the PME and to any Auxiliary Machinery purchases, Controls and Safety systems listed in Annex A- Statement of Work.	
			The Bidder must indicate the Classification Society, which must be an approved classification society as listed in Section 2 (1) of the Marine Machinery Regulations, Canada Shipping Act, 2001.	
M19f	New Auxiliary Machinery (AM) Systems'	Annex "A" – Statement	The Bidder's proposed new Auxiliary Machinery (AM) Systems components or instruments	

	proposed components or instruments manufacturers' experience	of Work, Part B, item 12.1	<p>a. must be manufactured by suppliers having a minimum of 10 years of experience designing, producing and selling each specific component type; and</p> <p>b. must have all mechanical parts or kits or subcomponents available for a minimum of 15 years unless the item is of low complexity, whereby the item itself must be available for at least 15 years, or as an upgraded compatible version.</p>	
			<p>The Bidder must provide an AM list of any new pumps, compressors, prefabricated tanks, receivers, filters, general valves, regulators, relief valves, and general instrumentation.</p> <p>The AM list must include the following specified columns and indicate the relating information for each proposed component's or proposed instrument's:</p> <ol style="list-style-type: none"> Manufacturer; web site link; general model number (an exact part number is not mandatory). <p>The Bidder must include a separate letter from each different listed manufacturer, demonstrating the requirements found in a., b. and c. by identifying:</p> <ol style="list-style-type: none"> the number of years that they have been manufacturing and designing their proposed listed components and instruments ; a minimum guarantee of fifteen (15) years supply after bid closing, of subcomponent parts and kits, or a complete replacement for smaller, less complex items. 	
M19g	New Auxiliary Machinery (AM) Systems' proposed components or instruments manufacturers' after service support	Annex "A" SOW, PART B, item 12.1	<p>The Bidder's proposed new Auxiliary Machinery (AM) Systems components, including pumps, compressors, prefabricated tanks, receivers, filters, valves, regulators, relief valves, and general instrumentation:</p> <p>a. must have vendor support as follows:</p> <ul style="list-style-type: none"> 24 hours/7 days phone technical support (for pumps, compressors, and filters, only); 	

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			<ul style="list-style-type: none">• logistical support chains (sales and technical office) available within North America for all components/items;• supplier technicians within 24 hours of Newfoundland to assist with repairs, and maintenance.	
			The Bidder must include a separate letter from each different listed manufacturer, demonstrating the requirements found in a., b. and c. by identifying the provided vendor support.	

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ANNEX Q

ADDITIONAL INFORMATION ON SELECTED EQUIPMENT*

*The bidder must provide the requested information.

Information to provide in support of selected critical equipment.

Equipment	Propulsion Machinery Engines (four units)
SOW reference	12.1
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Propulsion Machinery Clutches (four units)
SOW reference	12.1
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Propulsion Machinery Gearboxes (two units)
SOW reference	12.1
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Propulsion Machinery Shaft Alternators (two units)
SOW reference	13.1
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Switchboard equipment
SOW reference	14.2
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Motor Control Centers Equipment
SOW reference	14.3
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Start and aux air compressors replacement
SOW reference	15.11
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	40 tonne Deck Crane
SOW reference	17.1
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Mooring Winches (two units)
SOW reference	17.5
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Internal Communication System
SOW reference	18.1
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

Equipment	Propulsion Machinery Controls System Upgrade
SOW reference	19.1
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

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Equipment	Alarm and Monitoring System
SOW reference	19.2
Proposed Equipment (Indicate information below):	
Supplier	
Make	
Model	
Indicate Equipment Website Link --OR-- Include and indicate an Equipment Brochure Title (i.e. datasheet, specifications) and indicate the bid cross-reference.	

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ANNEX R

Templates

Bi-Monthly Progress Report
Risk Management Register
Inspection and Test Plan
Defect Management Log
Growth Work Log
Inspection and Test Plan
Log/Meeting Actions
Form PWGSC 1379
Warranty Claim Form
Inspection Non-Conformance Form

Populated Deliverable Templates

(to be updated and maintained by the Contractor for the duration of the Contract)

Document Register
Drawing Register

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Bi-monthly Progress Report - CCGS TERRY FOX VLE

Shipyard - AAAA

Date:

Section 1: Time, Cost and Performance Details:

Section 2: Significant Risks and Subsequent Actions:

Section 3: Critical Path Review

Section 4: Contractor Furnished Equipment Update

Section 5: QA Testing and Inspection Update

Section 6: Subcontractor Activity:

Section 7: New Defects or Changes (Defect advice notices - DANs, Complete Log in Appendix G):

Section 8: Unscheduled/Additional Work Summary (per Appendix H):

Section 9: FSRs Onsite and Expected FSR Arrivals (CCG to concur prior to making final arrangements):

APPENDICES: Include/submit any updates to the following documents:

- A. PROJECT SCHEDULE (clause 1.16 and Statement of Work, Part A GR 01, section 11; updated bi-monthly)
- B. DRAWING REGISTER (Statement of Work, Part A GR 06, and Contract clause 1.33; updated bi-monthly)
- C. DOCUMENT REGISTER (Statement of Work, Part A GR 06, and Contract clause 1.33; updated monthly)
- D. RISK MANAGEMENT REGISTER (Statement of Work, Part A GR 01, section 11; updated bi-monthly)
- E. PWGSC-1111, Claim for Progress Payment (updated monthly), invoice to follow
- F. INSPECTION & TEST PLAN (ITP), PROCEDURES (Statement of Work, Part A GR 01, section 11, and include updated inspections monthly)
- G. DEFECT MANAGEMENT LOG (Statement of Work, Part A GR 01, section 11; updated as needed)
- H. GROWTH WORK LOG/CHANGE MANAGEMENT LOG (Statement of Work, Part A GR 01, section 11; updated bi-monthly)
- I. STRUCTURE/ORGANIZATIONAL CHART FOR VLE (Statement of Work, Part A GR 01, section 11; when needed)
- J. SINGLE LINE DIAGRAM (Statement of Work, Part A GR 06 updated every four weeks, if necessary)
- K. LOAD ANALYSIS (Statement of Work, Part B, Item 14.1; updated every four weeks, if necessary)
- L. COORDINATION STUDY OF MAINS (updated every four weeks, if necessary)
- M. EMERGENCY DISTRIBUTION SYSTEMS (updated every four weeks, if necessary)
- N. SHORT CIRCUIT CURRENT ANALYSIS (Statement of Work, Part A GR 06; updated every four weeks, if necessary)
- O. WEIGHT CONTROL PROGRAM (Statement of Work, Part A GR 08; updated monthly)
- P. PROGRESS PHOTOGRAPHS (Statement of Work, Part A GR 06; updated monthly, attach to email)

Risk Management Register


Risk Management Register																	
Risk Identification							Assessment			Risk Response Plan					Monitoring and Control		
Risk No.	Status	Risk Category	Spec Item and No.	Risk Event	Risk Statement (If...then)	Consequences (Technical, Schedule, Cost)	Threat or Opportunity	Program Area	Likelihood	Impact	Risk Matrix	Response Strategy	Response Actions	Responsible to Implement	Responsible to Monitor	Interval or Milestone Check	Status: Date and Review Comments
1	Active	Technical		Lead Point	If lead point is discovered during the US work period, then additional time would be needed and extra cost would be incurred.	Contractor OHS and ongoing ship work OHS. Risk of reduced workforce productivity. Schedule and Cost may be affected.	Threat	Schedule	Unlikely	Medium		Mitigate	Not known to be an issue on this project. Project Officer to investigate availability of Regional lead point records.	Project Officer	PM	monthly	May 31, 2020 - first entry
2																	
3																	
4																	
5																	

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Inspection and Test Plan (Template and filled in Example)

 Canadian Coast Guard Garde côtière canadienne		Agreement/Entente - Signature & Date									
		CGTA/CGIA:									
		ATGC/AIGC:									
		Contractor:									
		Entrepreneur:									
Inspection and Test Plan (ITP) - Plan d'inspection et d'essai (PIE)											
References/Drawings/Comments - Références / Dessins / Commentaires											
Contractor Name:											
Nom de l'entrepreneur:											
Vessel Name:											
Nom du navire:											
Standards and Regulations: as per section											
Normes et règlements: selon la section											
Specification Number and Item Description:											
Numéro de spécification et description de l'article:											
Spec. Section No.	Inspection Point & Acceptance Criteria Point d'inspection et critères d'acceptation	Inspection Points (IP) - Acceptance & Responsibility Points d'inspection (IP) - Acceptation et responsabilité									
		CGTA/CE ATGC/IC		Contractor Entrepreneur		Class Classe		Other Autre		Other Autre	
		IP/PI	Signature	IP/PI	Signature	IP/PI	Signature	IP/PI	Signature	IP/PI	Signature
Inspection Points / Points d'inspection		Responsibilities / Responsabilités									
H - Hold - Work must not proceed until point is signed A - Attente - Le travail ne doit pas se poursuivre tant que le point n'est pas signé		CGTA/CGIA - Coast Guard Technical Authority /Coast Guard Inspection Authority ATGC/AIGC - Autorité technique Garde côtière / Autorité des inspections Garde côtière									
W - Witness - Task must be witnessed T - La tâche doit être témoiné		CE - Vessel Chief Engineer IC - Ingénieur en chef de navire									

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Form PWGSC 1379

 Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada			Project No. - No. du projet		
Work Arising or New Work – Travaux imprévus ou nouveaux travaux			File No. - No. de dossier		
Contractor's Name Nom de l'entrepreneur		Specification No. and Date No. de spécification et date		Work Order Serial No. No. de série du bon de travail	
Vessel – Navire		Customer Dept. – Ministère client		PWGSC 1379 Serial No. N° de série TPSGC 1379	
Signature		Title – Titre		Date	
Spec. Item No. Article spécif. no.	Description of Work, Labour and Material Detail Description des travaux, main-d'œuvre et matériaux		Hours Heures	Labour Cost Coût de la main-d'œuvre	Material Cost Coût du matériel
Work Summary					
Total Labor Cost (Labor Tab)				0.0	\$0.00
Total Material and Subcontractors Cost (Supplies and Subcontractors Tab)					\$0.00
			Hourly Rate Taux horaire	Total Labour Cost Coût total de la main-d'œuvre	\$0.00
			Total Material Cost Coût total du matériel		\$0.00
			Fee – Commission 10%	of material du matériel	\$0.00
			Sub-Total Sous-total		\$0.00
Contractor - Entrepreneur Contract will be completed as scheduled Le contrat sera achevé dans les délais impartis Or specify date: Sinon, préciser la date:			Signature		15.000%
			Title-Title		
Customer – Described work technically approved for price as established Client – Description des travaux approuvés en principe au prix négocié			Signature		Date
			Title-Title Technical Authority		
PWGSC – Authority to proceed with work TPSGC – Autorisation d'effectuer les travaux			Signature		Date
			Title-Title Contracting Authority		
PWGSC – 1379 Serial No. No. de série TPSGC 1379			Excel form based on PWGSC-TPSGC 1379 (10/2011) WER No. DET no		

[illegible]

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Materials and Subcontractors					
PWGSC Contract #	0				
Work Order	0				
Project:	0				
No de série du formulaire	00-Jan-00				
Work Description	0				
Description of Material	Quantity	Rate	Price	Supplier	Delivery Delay (Days)
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
Sub-Contractors	Hours 3 Unit Price	Rate	Price	Supplier	Delivery Delay (Days)
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		
	0.0	0.00 \$	0.00 \$		

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ANNEX E – APPENDIX 1

		Travaux publics et Services gouvernementaux Canada	Public Works and Government Services Canada		
			APPENDIX 1 TO ANNEX E		
WARRANTY CLAIM FORM (Refit)					
FORMULAIRE DE RÉCLAMATION DE GARANTIE (Radoub)					
Vessel Name - Nom du navire		File No. - No. du dossier		Contract No. - No. du contrat	
Customer Department - Ministère client				Warranty Claim Serial No. No. de série de réclamation de garantie	
Defect's Impact on Vessel's Operations Conséquence du défaut sur les opérations du navire			The Defect Must Be Corrected; Le défaut doit être corrigé;		
Vessel out of service Navire hors d'usage	Vessel Limited Operation Opération réduite du navire	No immediate consequence Sans conséquence immédiate	Immediately Immédiatement	When directed by Canada Tel qu'avisé par le Canada	To be agreed between Canada and Contractor À être entendue entre le Canada et l'entrepreneur
1. Description of the Defect - Description du défaut					
<p>Note: This section must be filled by Technical Authority (TA) in consort with the Ship's Staff (on site responsible) . On a determination of a valid claim, the TA will forward the claim to the Contractor and CC the Contracting Authority (CA). - Cette section doit être complétée par l'Autorité Technique conjointement avec l'équipage (responsable sur place). Si la réclamation est jugée valable l'AT transmettra la réclamation à l'entrepreneur avec copie à l'Autorité Contractante (AC).</p>					
Reference to Contract Article and/or Specification No. Référence à l'article du contrat et/ou devis no.					
Description					
Prepared by the on site responsible Préparé par le responsable sur place			Approved by Technical Authority Approuvé par l'Autorité Technique		
Date			Date		

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2. Contractor's Investigation and Position - Examen et position de l'entrepreneur

Note: The Contractor must investigate the claim, determine its position, complete this section 2 and return the claim to the TA and cc the CA. - L'entrepreneur doit faire l'examen de la réclamation, déterminer sa position, compléter la présente section 2 et retourner la réclamation l'AT avec copie à l'AC.

Contractor recognizes its total responsibility and will proceed with corrective action(s)
L'entrepreneur reconnaît son entière responsabilité et corrigera le défaut

Provide details on action(s) to take place with date and location.
Fournir les détails de(s) action(s) qui seront prise ainsi que la date et le lieu.

Contractor recognizes a partial responsibility.
L'entrepreneur reconnaît une responsabilité partielle.

Provide details supporting the above position with proposed sharing.
Fournir les détails justifiant la position ci-dessus ainsi que le partage proposé.

Contractor disclaims any responsibility.
L'entrepreneur refuse toute responsabilité.

Provide details supporting the above position.
Fournir les détails justifiant la position ci-dessus

Contractor's representative
Représentant de l'entrepreneur

Date

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3. PWGSC - CA's decision in case of Contractor partial responsibility or disclaim of responsibility - Décision de l'AC de TPSGC en cas de reponsabilité partagée ou de refus de responsabilité de la part de l'entrepreneur.					

<p>Reasons supporting PWGSC- CA's decision. Raisons justifiant la décision de l'AC de TPSGC</p>					

4. Costs record if requested by PWGSC-CA - Annotation des coûts si requis par l'AC de TPSGC					

<p>When requested by the PWGSC-CA the customer department must record in this section the costs associated to the repair of the defect. Lorsque demandé par l'AC de TPSGC le ministère client doit annoter dans cette section les coûts associés à la réparation du défaut.</p>					

<p>Confirmed by the Technical Authority Confir��� par l'Autorit�� Technique</p>					

<p>Date</p>					

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5. Work Acceptance and Warranty Claim Closing - Acceptation des travaux et fermeture de la réclamation de garantie					
Valid claim corrected by the Contractor and work accepted by Canada - Réclamation valable corrigée par l'entrepreneur et travaux acceptés par le Canada					
Remarks Remarques					
Contractor's representative - Représentant de l'entrepreneur			Inspection Authority - Autorité d'inspection		
Date			Date		
Valid claim corrected by the Contractor and Canada and work accepted by Canada - Réclamation valable corrigée par l'entrepreneur et le Canada et travaux acceptés par le Canada					
Remarks Remarques					
Contractor's representative - Représentant de l'entrepreneur			Inspection Authority - Autorité d'inspection		
Date			Date		
Technical Authority- Autorité technique			Contracting Authority - Autorité contractante		
Date			Date		
Valid claim corrected by Canada and work accepted by Canada - Réclamation valable corrigée par le Canada et travaux acceptés par le Canada					
Remarks Remarques					
Inspection Authority - Autorité d'inspection			Technical Authority- Autorité technique		
Date			Date		
Contracting Authority - Autorité contractante			Date		
Date					
Invalid claim - Réclamation non fondée					
Remarks Remarques					
Technical Authority- Autorité technique			Contracting Authority - Autorité contractante		
Date			Date		

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 Public Works and Government Services Canada / Travaux publics et Services gouvernementaux Canada		Clear Data - Effacer les données	
Inspection Non-Conformance Report Rapport d'inspection - non-conformité		Page 1 Of 1 De 1	
Project No. - N° du projet		File No. - N° du dossier	
Project - Projet		Report No. - Rapport n°	
To - À		From - De	
The following item is not acceptable to the inspectors and requires corrective action by the contractor to comply with the provisions of the specification:		Les inspecteurs estiment que l'article suivant n'est pas acceptable; il doit être corrigé par l'entrepreneur de manière à satisfaire aux dispositions du devis:	
		If you require more space - Si vous désirez plus d'espace	
When the foregoing non-conformance has been corrected, the contractor shall notify the inspector and request that it be reinspected		Une fois la non-conformité ci-dessus corrigée, l'entrepreneur doit aviser l'inspecteur et demander une autre inspection.	
Technical Inspector's Signature - Signature de l'inspecteur technique		Date	
C.C. - C.C.		Resolution - Règlement	

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Document Register (Contractor to populate) and

Drawing Register (Contractor to populate).

DOCUMENTS REGISTER (ANNEX R)**LATEST DATE REVISED :****VESSEL: CCGS TERRY FOX****PROJECT TITLE:****PROJECT NUMBER****REFIT/VLE START DATE:****REFIT/VLE PROJECTED END DATE:****SHIPYARD:****CLIENT: CCG**

SPECIFICATION SECTION AND DRAWING/DOCUMENT TITLES:	DOCUMENT No.	DISCIPLINE	DOCUMENT TYPE	DOCUMENT BY	DOCUMENT start date	DOCUMENT released date	DATE CCG APPROVED	DATE TO ABS	ABS APPROVAL DATE
PART A - GENERAL REQUIREMENTS									
Contract and Annexes									
THE INDIGENOUS PARTICIPATION COMPONENT (IPC) PLAN (Annex L - due at PDR or within 2 months of award, at the latest)									
A list of Government equipment that the Contractor intends to request must be submitted to the Contracting Authority within ten (10) days of Contract Award to permit timely supply or for alternate arrangements to be made (1.28)									
GR 1.0 General Reference and Requirements									
Access to HSSE (define the location per 6.1.1.5)			HSSE		CONTRACTOR custody retainment				
Submission of Contractor-proposed OHS procedures (HSSE) to follow upon OWNER care and custody retainment (6.1.1.2 and 6.1.1.3), if not FSSM applies and a scheduled orientation by CG is required.			HSSE or FSSE		OWNER custody retainment				
Single Emergency Response Procedure (6.3.1.1 and 6.3.1.2), procedure and fist demonstration at Refit Kickoff					DUE 5 days prior to refit kickoff				
lead paint work procedures (7.2.1.6)					DUE 5 days prior to refit kickoff				
spare parts list (9.6)									
complete and populate the CMM data spreadsheet (10.0)									
Defect notification Document template (11.5), discrepancy notice, Observation Report, change management log (11.6), (acceptance of other templates if not using those in RFP)									
OVERALL PROJECT ORGANIZATIONAL CHART (provided at the start of the project and updated in bi monthly Report, as needed, 11.3)			NA	SHIPYARD					
RISK MANAGEMENT REGISTER (11.4 - done for each bi-monthly Progress Report)			NA	SHIPYARD					
DEFECT MANAGEMENT LOG (11.5- in bi monthly Report, as needed)			NA	SHIPYARD					
CHANGE MANAGEMENT LOG or growth work (11.6 - done for each bi-monthly Progress									
PROJECT SCHEDULE (11.7 - done for each bi-monthly Progress Report)			NA	SHIPYARD					
PROGRESS REPORT(11.8 - done for each bi-monthly Progress Report)			NA	SHIPYARD					
DRAWINGS REGISTER (done for each bi-monthly Progress Report), GR 6.0			NA	SHIPYARD					
DOCUMENTS REGISTER (done for each bi-monthly Progress Report), GR 6.0									
Progress PHOTOGRAPHS (sent monthly), GR 6.0									
GR 2.0 GENERAL TECHNICAL									
Complete list of nameplates (prior to ordering or manufacturing) 8.1.1.9									
Coating Application Plan; 9.1, 9.1.1.5									
GR 3.0 MECHANICAL									
Proof of cleanliness documentation must be provided to the TA prior to commissioning. (for disturbed hydraulic piping items; 2.2)			SCHEDULE	SHIPYARD					
All new safety relief valves supplied for installation in any piping system must be supplied									
LAGGING AND INSULATION SCHEDULE (3.1.1.1), prior to ordering material									
GR 4.0 ELECTRICAL AND ELECTRONICS									
ELECTRICAL MOTORS LIST (TO PURCHASE, 1.2.1.17)			LIST	SHIPYARD					

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DRAWINGS REGISTER

LATEST DATE REVISED :

VESSEL: CCGS TERRY FOX

PROJECT TITLE:

PROJECT NUMBER

REFIT/VLE START DATE:

REFIT/VLE PROJECTED END DATE:

SHIPYARD:

CLIENT: CCG

VESSEL: CCGS TERRY FOX

VESSEL: CCGS TERRY FOX

PROJECT TITLE:

PROJECT NUMBER

REFIT/VLE START DATE:

REFIT/VLE PROJECTED END DATE:

SHIPYARD:

CLIENT: CCG

[illegible]

[illegible]

[illegible]

[illegible]

SPECIFICATION SECTION AND DRAWING/DOCUMENT TITLES:	DRAWING No.	Revision # of Drawing	Pages of Drawing (ie. 1 of 52)	DRAWING FORMAT PROVIDED TO CONTRACTOR	DRAWING FORMAT TO BE PROVIDED TO CCG	DRAWING BY	DRAWING start date	DRAWING released date	DATE CCG APPROVED	DATE TO ABS	ABS APPROVAL DATE
Construction Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Wiring Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
System P&ID	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
12.9 Propellers Service											
12.10 Tailshafts & Stern Tubes											
12.11 Rope Guards											
12.12 Tailshafts Wear-down											
12.13 Intermediate Shafts & Bearings											
12.14 CPP Pumps & Motors											
13.0 ELECTRICAL POWER GENERATION											
13.1 Shaft Alternator & Frequency Stabilization											
Electrical Schematics	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
One Line Diagrams	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
14.0 ELECTRICAL POWER DISTRIBUTION											
14.1 Electrical System Analysis											
14.2a Switchboards Upgrade											
Emergency Switchboard One Line Diagram	1-07-80-5	10	1 of 1	CAD	CAD						
Main & Emergency Switchboards Controls & Instrumentation Connection Diagram	1-07-80-50	2	1 of 1	TIF	TIF						
Main Switchboard One Line Diagram (2011)	07-80-4	7	1 of 1	CAD	CAD						
Electrical One Line	T13-4390-001	3	1 of 1	CAD	CAD						
Electrical Schematics	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
One Line Diagrams	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
14.2b Switchboards Upgrade											
Electrical Schematics	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
One Line Diagrams	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
14.3 Motor Control Centers Upgrade											
MCC #1	1-07-80-51	5	1 of 1	PDF	PDF						
MCC #2	1-07-80-52	2	1 of 1	PDF	PDF						
MCC #3	1-07-80-53	10	1 of 1	PDF	PDF						
MCC #4	1-07-80-54	2	1 of 1	PDF	PDF						

SPECIFICATION SECTION AND DRAWING/DOCUMENT TITLES:	DRAWING No.	Revision # of Drawing	Pages of Drawing (ie. 1 of 52)	DRAWING FORMAT PROVIDED TO CONTRACTOR	DRAWING FORMAT TO BE PROVIDED TO CCG	DRAWING BY	DRAWING start date	DRAWING released date	DATE CCG APPROVED	DATE TO ABS	ABS APPROVAL DATE
MCC #5	1-07-80-55	12	1 of 1	PDF	PDF						
A MCC #6A	1-07-80-56A		1 of 1	PDF	PDF						
B MCC#6B	1-07-80-56B	2	1 of 1	PDF	PDF						
Misc Starters Connection Diagram	1-07-80-57	12	1 of 1	PDF	PDF						
14.4 Electrical Distribution Panels Service											
14.5 TEP Inverter Replacement											
Construction Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Wiring Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
System P&ID	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
14.6 NOT USED											
14.7 NOT USED											
14.8 Megger Survey											
14.9 Thermal Scan Survey											
15.0 AUXILIARY SYSTEMS											
15.1 Sea Water Piping System Replacement											
Diagram of FW Circ & SW Circ Systems	71-01-01	15	1 of 1	CAD	CAD						
Frs. 1-3 Arrangement SW Circ. System, Marked	71-01-02	8	1 of 1	TIF	TIF						
15.2 Bilge & Ballast System Piping Replacement											
15.3 Ballast Tanks											
15.4 Pump Replacement											
Construction Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Wiring Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
System P&ID	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
15.5 NOT USED											
15.6 NOT USED											
15.7 NOT USED											
15.8 Fuel Oil Transfer Equipment Replacement											
Fuel Oil Diagram	71-04-01	12	1 of 1	TIF	TIF						
Arrangement Fuel Oil Filling & Transfer	71-04-03	6	1 of 3	TIF	TIF						
Arrangement Fuel Oil Filling & Transfer	71-04-04	9	2 of 3	TIF	TIF						
Arrangement Fuel Oil Filling & Transfer	71-04-05	1	3 of 3	TIF	TIF						

SPECIFICATION SECTION AND DRAWING/DOCUMENT TITLES:	DRAWING No.	Revision # of Drawing	Pages of Drawing (ie. 1 of 52)	DRAWING FORMAT PROVIDED TO CONTRACTOR	DRAWING FORMAT TO BE PROVIDED TO CCG	DRAWING BY	DRAWING start date	DRAWING released date	DATE CCG APPROVED	DATE TO ABS	ABS APPROVAL DATE
Construction Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Wiring Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
System P&ID	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
15.9 NOT USED											
15.10 Fuel Oil Tanks											
15.11 NOT USED											
15.12 Compressed Air System											
Construction Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Wiring Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
System P&ID	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
15.13 NOT USED											
15.14 NOT USED											
15.15 NOT USED											
15.16 Lube Oil Tanks											
16.0 DOMESTIC SYSTEMS											
16.1 Domestic Water System Piping Replacement											
Diagram Hot & Cold Domestic & Sanitary Fresh Water Service	70-08-01	9	1 of 1	Tif	Tif						
Arrangement of Hot & cold Domestic & Sanitary Fresh Water Service	70-08-02	8	1 of 2	PDF	PDF						
Arrangement of Hot & cold Domestic & Sanitary Fresh Water Service	70-08-02	12	2 of 2	TIF	TIF						
Evaporator Diagram	70-00-03	7	1 of 1	TIF	TIF						
Evaporator Arrangement	70-00-04	4	1 of 1	TIF	TIF						
16.2 Domestic Water System Equipment Replacement											
Construction Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Wiring Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
System P&ID	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Diagram Hot and Cold Domestic and Sanitary Fresh Water Service	70-08-01	9	1 of 1	Tif	Tif						
Arrangement of H&C Domestic & Sanitary FW System	70-08-02	8	1 of 2	PDF	PDF						
Arrangement of H&C Domestic & Sanitary FW System	70-08-02	12	2 of 2	TIF	TIF						
16.3 Domestic Water Tanks											
Tank Capacity Plan	T13-1027-001	8	1 of 1	CAD	CAD						

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[illegible]

SPECIFICATION SECTION AND DRAWING/DOCUMENT TITLES:	DRAWING No.	Revision # of Drawing	Pages of Drawing (ie. 1 of 52)	DRAWING FORMAT PROVIDED TO CONTRACTOR	DRAWING FORMAT TO BE PROVIDED TO CCG	DRAWING BY	DRAWING start date	DRAWING released date	DATE CCG APPROVED	DATE TO ABS	ABS APPROVAL DATE
17.9 Windlass											
17.10 Chain Locker Inspection											
17.11 5-Ton Crane Inspection											
17.12 Towing Outfit											
Construction Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Wiring Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
System P&ID	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
18.0 VESSEL COMMUNICATIONS & NAVIGATION											
18.1 Internal Communication System Upgrade											
Integrated Communications System	MM692-029-BD	C	1 of 1	PDF	PDF						
Integrated Communications System Block Diagram	1-07-82-6	2	1 of 1	PDF	PDF						
Integrated Communications Systems - Deck Plan (Main Deck & Above)	MM692-007-AD	0	1 of 1	PDF	PDF						
Integrated Communications Systems - Deck Plan (Main Deck & Above)	1-07-82-2	4	1 of 1	PDF	PDF						
Integrated Communications System - Machinery Spaces Assembly Plan	MM692-011-AD										
ICS System Wiring	1-07-82-1	2	1 of 1	PDF	PDF						
Integrated Communications System - Connection Diagrams	MM692-025-WD	B	1 of 2	PDF	PDF						
Integrated Communications System - Connection Diagrams	MM692-025-WD	A	2 of 2	PDF	PDF						
ICS connection diagram	1-07-82-3	2	1 of 2	PDF	PDF						
ICS connection diagram	1-07-82-3	2	2 of 2	PDF	PDF						
SX200 PBX (Public Branch Exchange)	MM692-073-WD										
PBX Junction Box	MM692-070-WD										
PA Rack ECP-2 Swing Frame	MM692-068-WD										
General Arrangement Profile and Main Deck	T13-1051-001	8	1 of 4	CAD	CAD						
General Arrangement Main Deck & Forecastle Deck	T13-1051-002	8	2 of 4	CAD	CAD						
General Arrangement A&B	T13-1051-003	8	3 of 4	CAD	CAD						
General Arrangement Bridge Deck	T13-1051-004	3	4 of 4	CAD	CAD						
Closed Circuit Television System	1-07-83-11	4	1 of 1	TIF	TIF						
Crews Common Antenna and Stereo System Diagram	MM692-026-WD										
SOCOMAR TV Distribution System Diagram	MM692-041-WD										
General alarm system Focsls B, A, and Nav bridge dec	1-07-82-7	3	1 of 2	PDF	PDF						
General alarm system Tank top, machy flat, main deck	1-07-82-8	4	2 of 2	PDF	PDF						
18.2 AIS replacement											
18.3 Auto pilot replacement											
Construction Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
Wiring Drawings (5.0)	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						
System P&ID	Drawing No. to be created by contractor			N/A	A new drawing is to be created in AutoCAD format						

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ANNEX S – Non-Disclaimer Agreement

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Annex "S" – Non-Disclosure Agreement

The following agreement must be signed and provided to the Contracting Authority, in order to obtain a copy of the CCGS Terry Fox VLE RFP Appendix A - Technical Data Package, Annex "A" Statement of Work. Any amendments to the Technical Data Package will be sent by email to those who have signed this agreement.

Non-Disclosure Agreement

PWGSC Request for Proposal No. F7049-200041

CCGS Terry Fox VLE

1. _____ (*insert company's name*), referred to herein as "the Company", recognizes that, in the course of preparing its bid in response to the Request For Proposal F7049-200041, the Company will be provided with, and given access to information that is confidential or proprietary in nature, which belongs to or is licensed to Canada. Such confidential or proprietary information includes but is not limited to: drawings, specifications, and any other documents, instructions, guidelines, data, material, advice or other information whether received orally, in printed form, recorded electronically, or otherwise and whether or not labeled as confidential, proprietary or sensitive, that is disclosed as a part of Request For Proposal F7049-200041.
2. The Company hereby agrees, and must so instruct its employees, that they must not reproduce, copy, use, divulge, release or disclose, in whole or in part, in whatever way or form, any information described above to any person other than a person employed by Canada, or to a person expressly consented to in writing by Canada, except on a need to know basis to employees within the Company. The Company undertakes to safeguard the same and take all necessary and appropriate measures, including those set out in any written or oral instructions issued by Canada, to prevent the disclosure of or access to such information in contravention of this Agreement. The Company agrees that it will require that any person expressly consented to in writing by Canada execute a Non-Disclosure Agreement on the same terms and conditions as those contained in this Agreement prior to disclosure of the information described above.
3. The Company acknowledges that any information provided to the Company by or on behalf of Canada must be used solely for the purpose of this Request for Proposal and remains the property of Canada or a third party, as the case may be.
4. The Company agrees that the release or the issuance of any information described above is neither a commitment by Canada to enter into any agreement(s) or award any contract(s) nor an authorization to the Company to undertake any work which could be charged to Canada. Nothing herein obligates Canada to award any contract for any work whatsoever.
5. The Company agrees that the obligations contained in this Non-Disclosure Agreement will survive the completion of this solicitation process and the subsequent completion of any potential resulting contract.

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Name of Company

Name of Authorized Representative (please print)

Signature (**I have the Authority to bind the Company**).

Date

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CCC No./N° CCC - FMS No./N° VME

ANNEX “T” – General Conditions 1031-2, (2012-07-16), Contract Cost Principles

1031-2 01 (2008-05-12) General Principle

The total cost of the Contract must be the sum of the applicable direct and indirect costs which are, or must be reasonably and properly incurred and/or allocated, in the performance of the Contract, less any applicable credits. These costs must be determined in accordance with the Contractor's cost accounting practices as accepted by Canada and applied consistently over time.

1031-2 02 (2008-05-12) Definition of a Reasonable Cost

1. A cost is reasonable if the nature and amount do not exceed what would be incurred by an ordinary prudent person in the conduct of a competitive business.
2. In determining the reasonableness of a particular cost, consideration will be given to:
 - a. whether the cost is of a type generally recognized as normal and necessary for the conduct of a contractor's business or performance of the Contract;
 - b. the restraints and requirements by such factors as generally accepted sound business practices, arm's length bargaining, federal, provincial and local laws and regulations, and contract conditions;
 - c. the action that prudent business persons would take in the circumstances, considering their responsibilities to the owners of the business, their employees, customers, the Government and public at large;
 - d. significant deviations from the established practices of the Contractor which may unjustifiably increase the contract costs; and
 - e. the specifications, delivery schedule and quality requirements of the particular contract as they affect costs.

1031-2 03 (2008-05-12) Direct Costs

There are three categories of direct costs:

- a. "Direct Material Costs" meaning the cost of materials which can be specifically identified and measured as having been used or to be used in the performance of the Contract and which are so identified and measured consistently by the Contractor's cost accounting practices as accepted by Canada.
 - i. These materials may include, in addition to materials purchased solely for the performance of the Contract and processed by the Contractor, or obtained from subcontractors, any other materials issued from the Contractor's general stocks.
 - ii. Materials purchased solely for the performance of the Contract or subcontracts must be charged to the Contract at the net laid-down cost to the Contractor before cash discounts for prompt payment.
 - iii. Materials issued from the Contractor's general stocks must be charged to the Contract in accordance with the method as used consistently by the Contractor in pricing material inventories.

- b. "Direct Labour Costs" meaning the costs of the portion of gross wages or salaries incurred for the Work, which can be specifically identified and measured as having been incurred or to be incurred in the performance of the Contract and which are so identified and measured consistently by the Contractor's cost accounting practices as accepted by Canada.
- c. "Other Direct Costs" meaning those applicable costs, not falling within the categories of direct material or direct labour, but which can be specifically identified and measured as having been incurred or to be incurred in the performance of the Contract and which are so identified and measured consistently by the Contractor's cost practices as accepted by Canada.

1031-2 04 (2012-07-16) Indirect Costs

- 1. "Indirect Costs (overhead)" meaning those costs which, though necessarily having been incurred during the performance of the Contract for the conduct of the Contractor's business in general, cannot be identified and measured as directly applicable to the performance of the Contract.
- 2. These Indirect Costs may include, but are not necessarily restricted to, such items as:
 - a. indirect materials and supplies (*);
 - b. indirect labour;
 - c. fringe benefits (the Contractor's contribution only);
 - d. public services expenses: expenses of a general nature such as power, heat, light, operation and maintenance of general assets and facilities;
 - e. fixed/period charges: recurring charges such as property taxes, rentals and reasonable depreciation costs;
 - f. general and administrative expenses: including remuneration of executive and corporate officers, office wages and salaries and expenses such as stationery, office supplies, postage and other necessary administration and management expenses;
 - g. selling and marketing expenses associated with the goods, services or both being acquired under the Contract;
 - h. general research or development expenses as considered applicable by Canada.

(*) For supplies of similar low-value, high-usage items the costs of which meet the above definition of Direct Material Costs but for which it is economically expensive to account for these costs in the manner prescribed for direct costs, then they may be considered to be indirect costs for the purposes of the Contract.

1031-2 05 (2008-05-12) Allocation of Indirect Costs

Indirect Costs must be accumulated in appropriate indirect cost pools, reflecting a contractor's organizational or operational lines and these pools subsequently allocated to contracts in accordance with the following two principles:

- a. the costs included in a particular indirect cost pool should have a similarity of relationship with each contract to which that indirect cost pool is subsequently distributed; further, the costs included in an indirect cost pool should be similar enough in their relationship to each other that the allocation of the total costs in the pool provides a result which would be similar to that achieved if each cost within that pool were separately distributed;
- b. the allocation basis for each indirect cost pool should reflect, as far as possible, the causal relationship of the pooled costs to the contracts to which these costs are distributed.

1031-2 6 (2008-05-12) Credits

The applicable portion of any income, rebate, allowance, or any other credit relating to any applicable direct or indirect cost, received by or accruing to the Contractor, must be credited to the Contract.

1031-2 07 (2012-07-16) Non-applicable Costs

Despite that the following costs may have been or may be reasonably and properly incurred by the Contractor in the performance of the Contract, they are considered non-applicable costs to the Contract:

- a. allowance for interest on invested capital, bonds, debentures, bank or other loans together with related bond discounts and finance charges;
- b. legal, accounting and consulting fees in connection with financial reorganization, security issues, capital stock issues, obtaining of patents and licenses and prosecution of claims against Canada;
- c. losses on investments, bad debts and collection charges;
- d. losses on other contracts;
- e. federal and provincial income taxes, excess profit taxes or surtaxes and/or special expenses in connection with those taxes;
- f. provisions for contingencies;
- g. premiums for life insurance on the lives of officers and/or directors where proceeds accrue to the Contractor;
- h. amortization of unrealized appreciation of assets;
- i. depreciation of assets paid for by Canada;
- j. fines and penalties;
- k. expenses and depreciation of excess facilities;
- l. unreasonable compensation for officers and employees;
- m. specific product development or improvement expenses not associated with the product being acquired under the Contract;

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- n. advertising, except reasonable advertising of an industrial or institutional character placed in trade, technical or professional journals for the dissemination of information for the industry or institution;
 - o. entertainment expenses;
 - p. donations except those to charities registered under the [*Income Tax Act*](#);
 - q. dues and other memberships other than regular trade and professional associations;
 - r. fees, extraordinary or abnormal for professional advice in regard to technical, administrative or accounting matters, unless approval from the Contracting Authority is obtained.
 - s. compensation in the form of dividend payments or calculated based on dividend payments;
 - t. compensation calculated, or valued, based on changes in the price of corporate securities, such as stock options, stock appreciation rights, phantom stock plans or junior stock conversions; or, any compensation in the form of a payment made to an employee in lieu of an employee receiving or exercising a right, option, or benefit.

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F7049-200041/B
Client Ref. No. - N° de réf. du client
F7049-200041

Amd. No. - N° de la modif.
File No. - N° du dossier
043mdF7049-200041

Buyer ID - Id de l'acheteur
043md
CCC No./N° CCC - FMS No./N° VME

ANNEX U

NO-SUBSTITUTE LIST

Equipment	Defined in SOW Item
Hull Cathodic Protection Equipment	11.4
Anti-Corrosion & Anti Fouling Equipment	11.6
Sandwich method repair for deck (engineering)	11.11
Governor	12.1
Steering Gear equipment	12.6
Stern-thruster motor and starter	12.8
Spare propeller blades	12.9
CPP Motors (control pitch propeller)	12.14
TEP Inverter equipment	14.5
Miscellaneous pumps	15.4
Fuel oil transfer equipment	15.8
Sewage treatment system equipment	16.4
Incinerator	16.10
Equipment for tow outfit upgrade	17.2
Deck machinery	17.3a
Autopilot upgrade	18.3
CCTV (camera System)	18.7
Gyro Compass	18.9
Wheelhouse layout & control equipment	19.7
Paint and Coatings	Several

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ANNEX V

PDR-CDR

ANNEX V PDR-CDR

DESIGN REVIEW MEETINGS DELIVERABLES TABLE		
ITEMS	PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS	CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
PART A - GENERAL REQUIREMENTS		
GR1 General Requirements and contract section requirements	1. Any Overall Project Organizational Chart changes? 2. updated version of the Milestone Delivery dates and VLE Work Schedule (must be produced with a commercially available project management software; review proposed software) 3. update of subcontractor's and Field Service Representatives' (FSRs) commitments (commitments to finalize within 2 months) 4. Risk Management Register Update 5. Indigenous Participation Component Plan (contract Annex L)	1. Any Overall Project Organizational Chart changes? 2. updated version of the Milestone Delivery dates and VLE Work Schedule 3. Risk Management Register Update 4. list of Government equipment that the Contractor intends to request (1.28)
GR2 General Technical		
GR3 General Mechanical		
GR4 General Electrical		
GR5 Electro -Magnetic Interference		
GR6 Documentation	1. Updated Document and Drawing Registers	1. updated Document and Drawing Registers
GR7 Inspection, Tests and Trials	1. Overall ITP (completed for equipment purchases and all work period items)	1. Overall ITP (completed for equipment purchases and all work period items) 2. Pre-Arrival Sea Trial Test Plan, 2.0
GR8 Stability	1. Preliminary Ship Stability Calculations with the new equipment/engineering changes.	1. Final Ship Stability Calculations with the new equipment/engineering changes.
GR9 Berthing and Docking		
GR10 Services		
GR11 Field Service Representative (FSR) Requirements		1.FSR commitments attained.
GR12 Integration and Power Management	Detail of full power management approach must be provided by the Contractor for review and comment by the TA and Class Approval. The Power Management Plan must include: a)Description of all envisioned operational modes and primary means of overall load management associated with each. b)Detailed explanation of what power management functions reside in what hardware: Switchboard, CCAMS, PCS, other, and how such functions are integrated. c)Detail of operator interface options and all operator selectable functionality and configuration options. d)Detail of all Automatic, Semi-Automatic, Manual and Emergency operational procedures. e)Drawing package, as required by Class, for approval of the overall Integration and Power Management Plan. f)Definition of Integration and Power Management Software layout in which all related software, and its host hardware, is identified. An explanation of the functionality and integration of all related software platforms must be offered as well as access to all such software.	Detail of full power management approach must be provided by the Contractor for review and comment by the TA and Class Approval. The Power Management Plan must include: a)Description of all envisioned operational modes and primary means of overall load management associated with each. b)Detailed explanation of what power management functions reside in what hardware: Switchboard, CCAMS, PCS, other, and how such functions are integrated. c)Detail of operator interface options and all operator selectable functionality and configuration options. d)Detail of all Automatic, Semi-Automatic, Manual and Emergency operational procedures. e)Drawing package, as required by Class, for approval of the overall Integration and Power Management Plan. f)Definition of Integration and Power Management Software layout in which all related software, and its host hardware, is identified. An explanation of the functionality and integration of all related software platforms must be offered as well as access to all such software.
PART B		
10.0 SAFETY & SECURITY		
10.1 Life Raft Recertification		
10.2 Lifeboat & Miranda Davit Annual Inspection		
10.3 Fire Detection System Replacement	a)Drawings and general manufacturer provided system, technical and parts information applicable to all hardware and functionality proposed for the new FDS. b)Class approval documentation for proposed hardware c)FDS Cabinet Arrangement Drawings d)Confirmation of proposed installation locations for all major components – central processing unit(s), batteries, HMI stations etc. e)Confirmation of proposed power supply requirements and arrangements. f)FDS Block Diagram g)Cable Route & Cable Loop Line Diagrams. Cable route drawing must show equipment layout, and as fitted cable routing over General Arrangement.	a)Drawings and general manufacturer provided system, technical and parts information applicable to all hardware and functionality proposed for the new FDS. b)Class approval documentation for proposed hardware c)FDS Cabinet Arrangement Drawings d)Confirmation of proposed installation locations for all major components – central processing unit(s), batteries, HMI stations etc. e)Confirmation of proposed power supply requirements and arrangements. f)FDS Block Diagram g)Cable Route & Cable Loop Line Diagrams. Cable route drawing must show equipment layout, and as fitted cable routing over General Arrangement.
10.4 Fire Fighting Equipment Recertification		

DESIGN REVIEW MEETINGS DELIVERABLES TABLE			
ITEMS		PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS	CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
10.5	Watertight Door Replacement	a) Drawings and general manufacturer provided technical and parts information applicable to all hardware proposed for the new WTDS. b) Class approval documentation for proposed hardware. c) System arrangement plan indicating proposed location and arrangement of the system overall and detail as applicable to each door installation. d) Hydraulic system one line diagram e) Hydraulic system piping arrangement indicating all system components and proposed hydraulic routing over General arrangement f) Electrical system drawings including proposed power supplies, all system interconnection requirements and wiring requirements at each door. g) Cable list and connection diagrams. h) Electric cable routing plan indicating all system components and cable runs over General Arrangement. i) Detail drawings of hydraulic pump set motor controller j) All other documentation required by Class to allow Class approval of the proposed WTDS, its installation on the vessel and issuance of Class approved plans for the WTDS. k) Wheelhouse Panel Fire Door Status	a) Drawings and general manufacturer provided technical and parts information applicable to all hardware proposed for the new WTDS. b) Class approval documentation for proposed hardware. c) System arrangement plan indicating proposed location and arrangement of the system overall and detail as applicable to each door installation. d) Hydraulic system one line diagram e) Hydraulic system piping arrangement indicating all system components and proposed hydraulic routing over General arrangement f) Electrical system drawings including proposed power supplies, all system interconnection requirements and wiring requirements at each door. g) Cable list and connection diagrams. h) Electric cable routing plan indicating all system components and cable runs over General Arrangement. i) Detail drawings of hydraulic pump set motor controller j) All other documentation required by Class to allow Class approval of the proposed WTDS, its installation on the vessel and issuance of Class approved plans for the WTDS. k) Wheelhouse Panel Fire Door Status
10.6	Fire Main & Monitor Piping System Replacement	Submit the proposed BOM of the new fire main and monitor systems (preliminary)	Submit the proposed BOM of the new fire main and monitor systems (final)
10.7	Local Application Fire Fighting System Installation	a) Drawings and manufacturer provided general technical and parts information applicable to all hardware proposed for the new LAFFS. b) Layout drawing of pump, showing main dimensions and location of pipe connections and attachment points c) Class approval documentation for the proposed LAFFS hardware. d) LAFFS pipe and tube diagrams and arrangements. Pipe routing drawings must show equipment layout and proposed pipe and tube routing over General Arrangement as well proposed location of section valves and spray nozzles. e) Feed Pump location and piping size and routing detail f) Fire main connection and piping size and routing detail. g) Electrical diagrams confirming proposed power supply requirements and all other electrical and control connections and cable routing. h) Connection Diagram/Cable Schedule i) Internal circuit diagram of electric cabinets j) Panel layouts k) All other documentation required by Class to allow Class approval of the proposed system and its installation on the vessel and issuance of Class approved plans for the LAFFS.	a) Drawings and manufacturer provided general technical and parts information applicable to all hardware proposed for the new LAFFS. b) Layout drawing of pump, showing main dimensions and location of pipe connections and attachment points c) Class approval documentation for the proposed LAFFS hardware. d) LAFFS pipe and tube diagrams and arrangements. Pipe routing drawings must show equipment layout and proposed pipe and tube routing over General Arrangement as well proposed location of section valves and spray nozzles. e) Feed Pump location and piping size and routing detail f) Fire main connection and piping size and routing detail. g) Electrical diagrams confirming proposed power supply requirements and all other electrical and control connections and cable routing. h) Connection Diagram/Cable Schedule i) Internal circuit diagram of electric cabinets j) Panel layouts k) All other documentation required by Class to allow Class approval of the proposed system and its installation on the vessel and issuance of Class approved plans for the LAFFS.
10.8	Safety Relief Valves		
10.9	Fog Horn Installation	Components datasheets, electrical plan and planned location (preliminary)	Components datasheets, electrical plan and planned location (final)
10.10	FM200 System Modification		
10.11	FM200 System Monitoring		
11.0 HULL & RELATED STRUCTURES			
11.1	Hull Cleaning		
11.2	Hull Inspection		
11.3	Hull and Structural Steel Repairs		
11.4	Hull Protection System Service		
11.5	Sea Chests & Sea Bays	Access and Closing Plan	Access and Closing Plan (approved by class)
11.6	Sea Chest & Sea Bay Protection System Service		
11.7	RO Suction Sea Chest		
11.8	Fender Repairs		
11.9	Hull Coating		
11.10	Sea Valves and Connections		
11.11	Main Deck Plating Repair		
11.12			
11.13	Superstructure and Decks Coating		
11.14	Internal Steel Repair (Air Trunk)		
11.15	Void & Miscellaneous Tanks	Access and Closing Plan	Access and Closing Plan (approved by class)
11.16	Vent & Sounding Pipes		
11.17			
11.18	Forward Mast Replacement	Drawing for the new mast	Class approved drawing for the new mast
11.19	Aft Bulwark Replacement	Drawing for the specified bulwark repairs and upgrades	Class approved drawing for the specified bulwark repairs and upgrades

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ITEMS	PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS	CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
11.20 Window & Skylight Replacement		
11.21 Window Wiper Replacement		
11.22 Forward Stores Hatch Replacement	Drawing for the new hatch and hatch installation	Class approved drawing for the new hatch and hatch installation
11.23 Weather Door Replacement		
11.24		
11.25 Logistics Office Renovation	a)Preliminary Floor plan arrangement b)Preliminary Elevation arrangement of each wall c)Fixed mounting requirements for outfitting d)Preliminary Bulkhead lining plan e)Preliminary Ceiling lining plan f)Preliminary Electrical outfit plan including 120VAC electrical receptacles, lighting and light switching arrangement, ICS layout, phones and PA speaker arrangement, fire detection hardware layout, vessel's LAN connection layout. g)Complete BOM identifying detail of all outfitting to be installed.	a)Final Floor plan arrangement b)Final Elevation arrangement of each wall c)Fixed mounting requirements for outfitting d)Final Bulkhead lining plan e)Final Ceiling lining plan f)Final Electrical outfit plan including 120VAC electrical receptacles, lighting and light switching arrangement, ICS layout, phones and PA speaker arrangement, fire detection hardware layout, vessel's LAN connection layout. g)Complete BOM identifying detail of all outfitting to be installed.
11.26 Void Space Conversion		
11.27 Alleyway Deck Coverings Replacement		
11.28 Bilge Cleaning		
11.29 Galley Renovation	a)Preliminary Floor plan arrangement b)Preliminary Elevation arrangement of each wall c)Fixed mounting plan for all equipment and outfitting d)Preliminary Bulkhead lining plan e)Preliminary Ceiling lining plan f)Preliminary Electrical outfit plan including 120VAC electrical receptacles, lighting and light switching arrangement, ICS layout, phones and PA speaker arrangement, fire detection hardware layout. g)Preliminary Domestic water plan h)Preliminary Grey water plan i)Complete BOM identifying detail of all equipment and outfitting proposed j)OEM specification sheets for all new equipment proposed k)Production drawings for all items of outfit requiring custom manufacture Access and Closing Plan	a)Final Floor plan arrangement b)Final Elevation arrangement of each wall c)Fixed mounting plan for all equipment and outfitting d)Final Bulkhead lining plan e)Final Ceiling lining plan f)Final Electrical outfit plan including 120VAC electrical receptacles, lighting and light switching arrangement, ICS layout, phones and PA speaker arrangement, fire detection hardware layout. g)Final Domestic water plan h)Final Grey water plan i)Complete BOM identifying detail of all equipment and outfitting proposed j)OEM specification sheets for all new equipment proposed k)Production drawings for all items of outfit requiring custom manufacture Access and Closing Plan
11.30 Central Stores Rebuild		
11.31 Focsle Deck Storage Locker Installation		
11.32 Noise Abatement		
12.0 PROPULSION & MANOEUVERING SYSTEMS		
12.1 Propulsion Machinery Replacement	Refer to section 3.11 for all details, but generally to include, and not be limited to: 1. Preliminary Electrical schematics/design for the PS and the vessel; 2. Preliminary Electrical hardware for the PS and the vessel; 3. Preliminary Software Architecture/Design; 4. Preliminary Vibration Analysis for the PS with its sub-base and vessel's base and structure; 5. Preliminary Structural drawings/design for the PS and the vessel structure; 6. Preliminary Mechanical drawings/design for the PS and the vessel; 7. Preliminary Mechanical hardware for the PS and the vessel; 8. Preliminary Aux systems drawings/design for the PS and the vessel & Major components datasheets; 9. Preliminary Heat Rejection Analysis for the central cooling system; 10. Preliminary Auxiliary hardware for the PS and vessel;	Refer to section 3.11 for all details, but generally to include, and not be limited to: 1. Final Electrical schematics/design for the PS and the vessel; 2. Final Electrical hardware for the PS and the vessel; 3. Final Software Architecture/Design; 4. Final Vibration Analysis for the PS with its sub-base and vessel's base and structure; 5. Final Structural drawings/design for the PS and the vessel structure; 6. Final Mechanical drawings/design for the PS and the vessel; 7. Final Mechanical hardware for the PS and the vessel; 8. Final Auxiliary systems drawings/design for the PS and the vessel & Major components datasheets; 9. Final Heat Rejection Analysis for the central cooling system; 10. Final Auxiliary hardware for the PS and vessel;

DESIGN REVIEW MEETINGS DELIVERABLES TABLE		
ITEMS		CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023)
PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022)		FINAL DOCUMENTS
PRELIMINARY DOCUMENTS		
	11. Preliminary Details of a Failure Modes and Effect Analysis (FMEA) for the PS; 12. Preliminary EC Integration and Installation Specifications and Drawings; 13. Preliminary PS ship's lifting/handling procedures with required setups, required vessel's shipping route(s), dismantling(s), shipping opening(s), temporary structural reinforcement(s) packages (specs and drawing); 14. Preliminary Design of the PS components' lifting and handling attachment points; tools and equipment required for maintenance, for transportation, for temporary storage in the shipyard and for transfer from storage to the vessel's engine room; 15. Preliminary PS (including all separate components and equipment) packaging and protection required for transportation, temporary storage in the shipyard and transfer from storage to the vessel's engine room; 16. Preliminary PS Inspection Test Plan (PS ITP, for integration/reference in the OVERALL ITP) to cover as a minimum the FAT, VIT, DTP and SAT;	11. Final Details of a Failure Modes and Effect Analysis (FMEA) for the PS; 12. Final EC Integration and Installation Specifications and Drawings; 13. Final PS ship's lifting/handling procedures with required setups, required vessel's shipping route(s), dismantling(s), shipping opening(s), temporary structural reinforcement(s) packages (specs and drawing); 14. Final Design of the PS components' lifting and handling attachment points; tools and equipment required for maintenance, for transportation, for temporary storage in the shipyard and for transfer from storage to the vessel's engine room; 15. Final PS (including all separate components and equipment) packaging and protection required for transportation, temporary storage in the shipyard and transfer from storage to the vessel's engine room; 16. Final PS Inspection Test Plan (PS ITP, for integration/reference in the OVERALL ITP) to cover as a minimum the FAT, VIT, DTP and SAT; 17. Final listing of the Classification Society and/or TCMS appropriate and applicable Certifications and Approvals required; 18. Final Integrated Logistics Support (ILS) documentation; 19. Final Shipping and Handling and route
12.2	Bubbler Compressor Replacement	
12.3	Bubbler Piping Replacement	a)BOM for the new bubbler compressor air discharge piping system. b)Class approval documentation for all proposed materials c)Access and Closing Plan as per section 3.2
12.4	Bubbler Piping Cofferdam Construction	
12.5	Rudder, Stock & Carrier Bearing Inspection	
12.6	Steering Gear & Control Upgrade	
12.7		
12.8	Stern Thruster Maintenance	New motor and VFD proposal package : a)Motor specification detail b)VFD specification detail. c)Electric cabling requirement detail. d)Detail of all measures incorporated in the motor/VFD package to mitigate common mode voltage risks. e)Detail of all requirements for integration, connection and configuration with the existing stern thruster control system. f)Class approval documentation for all proposed hardware
12.9	Propellers Service	
12.10	Tailshafts & Stern Tubes	
12.11	Rope Guards	
12.12	Tailshafts Wear-down	
12.13	Intermediate Shafts & Bearings	
12.14	CPP System Service	
13.0 ELECTRICAL POWER GENERATION		
13.1	Shaft Alternator Replacement & Frequency Stabilization	include – but not be limited to – the following: a)Electrical Single Lines and Schematics – preliminary b)Complete Bill of Materials (BoM) - preliminary c)Mechanical Drawings - preliminary d)Operation Procedures e)Maintenance Procedures f)A documentation registry g)Factory Acceptance Test Procedures up to and including full load trials h)Site Acceptance Test Procedures i)Functional Descriptions
		include – but not be limited to – the following: a)Electrical Single Lines and Schematics – final b)Complete Bill of Materials (BoM) - final c)Mechanical Drawings - final d)Operation Procedures e)Maintenance Procedures f)A documentation registry g)Factory Acceptance Test Procedures up to and including full load trials h)Site Acceptance Test Procedures i)Functional Descriptions j) Class Approval
14.0 ELECTRICAL POWER DISTRIBUTION		
14.1	Electrical System Analysis	Short Circuit Calculations - preliminary Coordination Analysis - preliminary Arc Flash Analysis - preliminary Load Analysis Study - preliminary SINGLE LINE DIAGRAM - preliminary
		Short Circuit Calculations - final Coordination Analysis - final Arc Flash Analysis - final Load Analysis Study - final SINGLE LINE DIAGRAM - final Class approval

DESIGN REVIEW MEETINGS DELIVERABLES TABLE		
ITEMS	PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS	CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
14.2 Switchboards Upgrade		
14.3 Motor Control Centers Upgrade		
14.4 Electrical Distribution Panels Service	provide a DC power supply plan - preliminary	provide a DC power supply plan - final
14.5 TEP Inverter Replacement	a)TEP Inverter capacity determination based on assessment, and Class approval, of all electrical loads, new and existing, that must be supplied from the TEP system. b)Updated electrical drawing indicating all loads to be supplied by the new TEP system. c)Complete BOM for a new TEP Inverter system d)Product data and specification sheets for all hardware to be installed. e)An Access Plan that details any structural removals required to facilitate replacement of the TEP Inverter and charger. f)A Closing Plan that details all structural material specifications and weld procedure details required for reassembly of structural removals identified in the Access Plan	a)TEP Inverter capacity determination based on assessment, and Class approval, of all electrical loads, new and existing, that must be supplied from the TEP system. b)Updated electrical drawing indicating all loads to be supplied by the new TEP system. c)Complete BOM for a new TEP Inverter system d)Product data and specification sheets for all hardware to be installed. e)Class approval documentation for the new TEP Inverter and the new battery charger. f)An Access Plan that details any structural removals required to facilitate replacement of the TEP Inverter and charger. g)A Closing Plan that details all structural material specifications and weld procedure details required for reassembly of structural removals identified in the Access Plan
14.6		
14.7		
14.8 Megger Survey		
14.9 Thermal Scan Survey		
15.0 AUXILIARY SYSTEMS		
15.1 Sea Water Piping System Replacement		
15.2 Bilge & Ballast System Piping Replacement		
15.3 Ballast Tanks	Access and Closing Plan	Access and Closing Plan (approved by class)
15.4 Pump Replacement		
15.5		
15.6		
15.7		
15.8 Fuel Oil Transfer Equipment Replacement	<u>Transfer Pumps</u> a)General arrangement drawings, b)OEM information and specifications and performance data sheets c)Confirmation of new pump fit within existing piping arrangement. <u>Suction Strainer</u> a)General Arrangement drawings and verification that mesh size is in accordance with the requirements of the transfer pump manufacturer <u>Flow Meters</u> a)General Arrangement and detail drawings. b)OEM specifications and performance and accuracy data sheets. c)Confirmation of fit within exiting piping arrangement, d)Confirmation of ability to communicate flow data to CCAMS and communications protocol used. <u>Quick Closing Valve System</u> a)General Arrangement and detail drawings of valves and control system b)Confirmation of valve fit within existing piping arrangement. c)Confirmation of proposed means of operation – pneumatic or hydraulic.	<u>Transfer Pumps</u> a)General arrangement drawings, b)OEM information and specifications and performance data sheets c)Confirmation of new pump fit within existing piping arrangement. <u>Suction Strainer</u> a)General Arrangement drawings and verification that mesh size is in accordance with the requirements of the transfer pump manufacturer <u>Flow Meters</u> a)General Arrangement and detail drawings. b)OEM specifications and performance and accuracy data sheets. c)Confirmation of fit within exiting piping arrangement, d)Confirmation of ability to communicate flow data to CCAMS and communications protocol used. <u>Quick Closing Valve System</u> a)General Arrangement and detail drawings of valves and control system b)Confirmation of valve fit within existing piping arrangement. c)Confirmation of proposed means of operation – pneumatic or hydraulic. <u>General</u> a)Proof of Class approval of all proposed new hardware. b)BOM for all other proposed material supply for this item. c)The Contractor must be responsible for confirming all sizing and bolting arrangement detail for all hardware to be supplied prior to placing orders.
15.9		
15.10 Fuel Oil Tanks		
15.11		
15.12 Compressed Air System		
15.13		
15.14		
15.15		
15.16 Lube Oil Tanks		
16.0 DOMESTIC SYSTEMS		
16.1 Domestic Water System Piping Replacement	a)Proposed pressure pump suction/discharge and aft circulating pump piping modification plan. This plan must be accepted by the TA and approved by Class prior to commencement of piping alterations. b)A complete BOM for all components of the new piping systems	a)Proposed pressure pump suction/discharge and aft circulating pump piping modification plan. This plan must be accepted by the TA and approved by Class prior to commencement of piping alterations. b)A complete BOM for all components of the new piping systems

DESIGN REVIEW MEETINGS DELIVERABLES TABLE			
ITEMS		PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS	CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
16.2	Domestic Water System Equipment Replacement	submit details (layout, P&ID and electrical drawings and/or data specifications) of all proposed hardware supply, such as: a)Pressure Pump Units b)Pressure Tanks c)Hot Water Heater and Control Panel d)Circulating Pump Units e)Dosing Pumps f)Chlorine Analyzers g)Chlorine Injectors	submit details (layout, P&ID and electrical drawings and/or data specifications) of all proposed hardware supply, such as: a)Pressure Pump Units b)Pressure Tanks c)Hot Water Heater and Control Panel d)Circulating Pump Units e)Dosing Pumps f)Chlorine Analyzers g)Chlorine Injectors
16.3	Domestic Water Tanks	Access and Closing Plan	Access and Closing Plan (approved by class)
16.4	Sewage Treatment Plant Replacement		
16.5			
16.6	Sewage & Grey Water System Replacement		
16.7	Fridge Plant Replacement	a)Schematic diagram of the new RS b)Design calculations for the new RS c)Complete BOM for the new RS d)Detail of RS electrical, control and monitoring system and confirmation of communication capability with vessel's CCAMS. e)Individual component manufacturer technical data sheets for all components of the new RS.	a)Schematic diagram of the new RS b)Design calculations for the new RS c)Complete BOM for the new RS d)Detail of RS electrical, control and monitoring system and confirmation of communication capability with vessel's CCAMS. e)Individual component manufacturer technical data sheets for all components of the new RS.
16.8	Fridge Space Refurbishment		
16.9	Electronics Room AC Replacement	a)Schematic diagram of the new Mini-Split Air conditioning System. b)Design calculations for the new Mini-Split Air Conditioning System c)Complete BOM for the new Mini-Split Air Conditioning System, d)Individual component manufacturer technical data sheets for all components of the new Mini-Split Air Conditioning System. e)Seat and hood drawings as defined in sections 3.2.1.2 through 3.2.1.5. f)Any other documentation as may be required by Class in support of Class approval of final plan for all work herein specified.	a)Schematic diagram of the new Mini-Split Air conditioning System. b)Design calculations for the new Mini-Split Air Conditioning System c)Complete BOM for the new Mini-Split Air Conditioning System, d)Individual component manufacturer technical data sheets for all components of the new Mini-Split Air Conditioning System. e)Seat and hood drawings as defined in sections 3.2.1.2 through 3.2.1.5. f)Any other documentation as may be required by Class in support of Class approval of final plan for all work herein specified.
16.10	Incinerator Replacement & Upgrade		
16.11	Machinery Space Ventilation Maintenance	a)Aft Auxiliary Machinery Space Vent Housing Port b)Aft Auxiliary Machinery Space Vent Housing Starboard c)Fwd. Auxiliary Machinery Space Vent Louver Wave Deflector Port & Starboard d)Fwd. Auxiliary Machinery Space Supply Trunking Modification Plan approval documents must include: a)Schematic diagram of the new designs b)Complete BOM for the new designs c)Any other documentation as may be required by Class in support of Class approval of final plan for all work herein specified.	a)Aft Auxiliary Machinery Space Vent Housing Port b)Aft Auxiliary Machinery Space Vent Housing Starboard c)Fwd. Auxiliary Machinery Space Vent Louver Wave Deflector Port & Starboard d)Fwd. Auxiliary Machinery Space Supply Trunking Modification Plan approval documents must include: a)Schematic diagram of the new designs b)Complete BOM for the new designs c)Any other documentation as may be required by Class in support of Class approval of final plan for all work herein specified.
16.12	HVAC Systems Duct Cleaning		
16.13	Galley Air Conditioning Installation	a)Design calculations for the new mounting structures. b)Complete BOM for the new Mini-Split Air Conditioning System c)Individual component manufacturer technical data sheets for all components of the new Mini-Split Air Conditioning System. d)Mounting drawings as referenced in sections 3.2.1.2 and 3.2.1.3. e)Any other documentation as may be required by Class in support of Class approval of final plan for all work herein specified.	a)Design calculations for the new mounting structures. b)Complete BOM for the new Mini-Split Air Conditioning System c)Individual component manufacturer technical data sheets for all components of the new Mini-Split Air Conditioning System. d)Mounting drawings as referenced in sections 3.2.1.2 and 3.2.1.3. e)Any other documentation as may be required by Class in support of Class approval of final plan for all work herein specified.
16.14	Galley Exhaust System Maintenance		
16.15	Galley Exhaust Fan Silencer Installation	a)Schematic diagram of the new Silencer, Fan and trunking system. b)Design calculations for the new Silencer, Fan and trunking system. c)Complete BOM for the new Silencer, Fan and trunking system d)Individual component manufacturer technical data sheets for all components of the new Silencer, Fan and trunking system.	a)Schematic diagram of the new Silencer, Fan and trunking system. b)Design calculations for the new Silencer, Fan and trunking system. c)Complete BOM for the new Silencer, Fan and trunking system d)Individual component manufacturer technical data sheets for all components of the new Silencer, Fan and trunking system.
16.16	Machinery Space Fan Maintenance		
16.17	Natural Ventilation Refurbishment		

DESIGN REVIEW MEETINGS DELIVERABLES TABLE		
ITEMS	PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS	CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
16.18 Steering Gear Compartment ventilation modification	a)Schematic diagram of the new Mini-Split Air conditioning System. b)Design calculations for the new Mini-Split Air Conditioning System c)Complete BOM for the new Mini-Split Air Conditioning System, d)Individual component manufacturer technical data sheets for all components of the new Mini-Split Air Conditioning System. e)Mounting plans for the indoor and outdoor units.	a)Schematic diagram of the new Mini-Split Air conditioning System. b)Design calculations for the new Mini-Split Air Conditioning System c)Complete BOM for the new Mini-Split Air Conditioning System, d)Individual component manufacturer technical data sheets for all components of the new Mini-Split Air Conditioning System. e)Mounting plans for the indoor and outdoor units.
16.19 Wheelhouse Ventilation System Replacement	a)Schematic diagram of the new Air Handling Unit b)Design calculations for the new Air Handling Unit c)Complete BOM for the new Air Handling Unit d)Individual component manufacturer technical data sheets for all components of the new Air Handling Unit New Design Criteria e)Any other documentation as may be required by Class in support of Class approval of final plan for all work herein specified.	a)Schematic diagram of the new Air Handling Unit b)Design calculations for the new Air Handling Unit c)Complete BOM for the new Air Handling Unit d)Individual component manufacturer technical data sheets for all components of the new Air Handling Unit New Design Criteria e)Any other documentation as may be required by Class in support of Class approval of final plan for all work herein specified.
17.0 DECK EQUIPMENT/SHIP SUPPORT SYSTEMS		
17.1 40 Ton deck Crane Replacement	Documents to Be Submitted Within Three (3) Months After Placement of Order The following list of drawings / documents must be submitted to Canada after the ordering of the selected crane: i.Load and information charts ii.Crane foundation design included associated forces and moments iii.List of all critical components and certification(s) that these components meet: o both the Classification Rules and Transport Canada Marine Safety requirements, o have material traceability, o approved CWB welding procedures (as applicable), and o non-destructive examination requirements. iv.Approved installation drawings v.Detailed approved drawings of any structure that may have to be installed as detailed in the engineering analysis and FEA report. vi.Foundation/mountings details vii.Schematic drawings of all systems i.e., hydraulic, electrical, alarm etc. viii.All relevant class approved drawings and documents. ix.Installation drawings indicating foundation details and procedures showing space constraints for withdrawal of various accessories of all the offered machinery and equipment. x.Provide a comprehensive and detailed listing (i.e., operating voltages and amperage requirements etc.) of the cranes safety alarm(s), set operating and operating points to allow for modifications to be made to the existing AMS system to accept the new I/O inputs.	Along with any finalized drawings from Preliminary, The Contractor must submit the following certificates and reports in triplicate (1 original + 2 copies) after FAT trial: a)FAT test data duly signed by Class, b)Classification Type approval, c)Manufacturer Test Certificates
17.2 Deck Machinery Mechanical Service		
17.3 Deck Machinery Electrical		
17.4 Stern Roller Service		
17.5 Mooring Winch Installation	a)Drawings and specification detail of the proposed new mooring winches. b)Confirmation of new winch manufacturer technical, service and parts support on the East Coast of Canada. c)Specifications and detail of new winch drive motors and variable frequency drives. d)New mooring plan for the forecastle deck reflecting the new mooring winches, their integration with existing mooring hardware and any additional, new mooring hardware to facilitate application of the new winches. e)Drawings and specification for any upgraded or new mooring hardware required to accommodate application of the new winches. f)Full structural assessment report in way of the new winches and all related mooring hardware. g)Drawings of any required structural modifications to accommodate the new winches and the new mooring plan. h)Drawings of new winch seats. i)Electrical drawing package defining electrical power supply requirements and all cabling requirements for the new winch installation.	a)Drawings and specification detail of the proposed new mooring winches. b)Confirmation of new winch manufacturer technical, service and parts support on the East Coast of Canada. c)Specifications and detail of new winch drive motors and variable frequency drives. d)New mooring plan for the forecastle deck reflecting the new mooring winches, their integration with existing mooring hardware and any additional, new mooring hardware to facilitate application of the new winches. e)Drawings and specification for any upgraded or new mooring hardware required to accommodate application of the new winches. f)Full structural assessment report in way of the new winches and all related mooring hardware. g)Drawings of any required structural modifications to accommodate the new winches and the new mooring plan. h)Drawings of new winch seats. i)Electrical drawing package defining electrical power supply requirements and all cabling requirements for the new winch installation.

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ITEMS		PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS	CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
17.6	Stores Crane Replacement	a)General arrangement drawing of the proposed new crane b)Load chart for the proposed new crane. c)Full specification sheet for the proposed new crane verifying all other specified requirements are satisfied. d)Mounting detail of the proposed new crane and verification that modification of the existing seat will not be required. e)Verification that the existing seat and deck structure are of sufficient strength to carry the proposed crane. f)Electrical drawing for the proposed crane confirming existing electrical supply will not have to be upgraded.	a)General arrangement drawing of the proposed new crane b)Load chart for the proposed new crane. c)Full specification sheet for the proposed new crane verifying all other specified requirements are satisfied. d)Mounting detail of the proposed new crane and verification that modification of the existing seat will not be required. e)Verification that the existing seat and deck structure are of sufficient strength to carry the proposed crane. f)Class approval documentation for the new crane for intended application on the vessel. g)Electrical drawing for the proposed crane confirming existing electrical supply will not have to be upgraded.
17.7	Bollard Replacement		Manufacturer drawings of the new bollards. (may be included with 17.5 items)
17.8	Anchors and chain inspection		
17.9	Windlass		
17.10	Chain Locker inspection		
17.11	5 Ton Crane inspection		
17.12	Towing Outfit	a)General arrangement drawing b)Load chart c)Full specification sheet verifying all other specified requirements are satisfied. d)Mounting detail and verification that modification of the existing structure will not be required. e)Verification that the existing seat and deck structure are of sufficient strength f)Electrical drawing confirming existing electrical supply will not have to be upgraded.	a)General arrangement drawing b)Load chart c)Full specification sheet verifying all other specified requirements are satisfied. d)Mounting detail and verification that modification of the existing structure will not be required. e)Verification that the existing seat and deck structure are of sufficient strength f)Electrical drawing confirming existing electrical supply will not have to be upgraded. g)Class approval documentation for the new crane for intended application on the vessel.
18.0 VESSEL COMMUNICATIONS & NAVIGATION			
18.1	Internal Communication System Upgrade	a)Proposed Service Provider for design and supply of the ICS. b)Make, model and manufacturer of the proposed ICS. c)Proposed ICS components and sub-components parts list. d)OEM technical information, drawings, dimensions, power consumption, heat dissipation and other specifications for proposed system hardware. e)System general arrangement and component layout plan on the vessels' General Arrangement drawings. f)Single line block diagrams with cable type identification of the system as laid out on each deck on the vessel's General Arrangement drawings. g)Overall system electrical wiring drawings for the proposed system including identification of all required power supplies. h)Cable routing drawings i)Cable list and connection and termination diagrams for the proposed system j)Preliminary, operation, installation, and service manuals for the proposed ICS. k)All other documentation required by Class to allow Class approval of the proposed ICS, its installation on the vessel and issuance of Class approved plans for the ICS.	a)Proposed Service Provider for design and supply of the ICS. b)Make, model and manufacturer of the proposed ICS. c)Proposed ICS components and sub-components parts list. d)OEM technical information, drawings, dimensions, power consumption, heat dissipation and other specifications for proposed system hardware. e)System general arrangement and component layout plan on the vessels' General Arrangement drawings. f)Single line block diagrams with cable type identification of the system as laid out on each deck on the vessel's General Arrangement drawings. g)Overall system electrical wiring drawings for the proposed system including identification of all required power supplies. h)Cable routing drawings i)Cable list and connection and termination diagrams for the proposed system j)Preliminary, operation, installation, and service manuals for the proposed ICS. k)All other documentation required by Class to allow Class approval of the proposed ICS, its installation on the vessel and issuance of Class approved plans for the ICS.
18.2	AIS replacement		
18.3	Auto pilot replacement		
18.4	Distance measuring system upgrade		
18.5			
18.6	VHF-DF		
18.7	CCTV (Camera System)		
18.8			
18.9	Gyro Compass		
19.0 INTEGRATED CONTROL SYSTEMS			

DESIGN REVIEW MEETINGS DELIVERABLES TABLE		
ITEMS		PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS
		CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
19.1	Propulsion Control System Upgrade	<p>a)Description of PCS system general layout and system overview.</p> <p>b)Technical information and specifications for all PCS hardware components</p> <p>c)Proof of Class approval of the hardware package proposed</p> <p>d)Drawings of all console panels, HMI and/or stand-alone instrumentation and controls detailing all hardware and its layout within the consoles.</p> <p>e)Description of all related system integration requirements and communication protocols applied.</p> <p>f)Detailed description of PCS control logic, functionality, and operational requirements demonstrating that all specified requirements are met.</p> <p>g)Electrical wiring diagrams indicating all power and communication cabling requirements, cable types and cable termination connection detail.</p> <p>h)Electric cable route layout presented over General Arrangement and/or Machinery Arrangement drawings.</p> <p>i)Description of software access, management, and security requirements.</p> <p>j)Description of remote access requirements and functionality</p> <p>k)Any other documentation as may be required for Class approval of the new PCS and the issuing of a Class Approved Plan for the new PCS installation on the vessel, acceptable to the TA.</p>
19.2	Alarm & Monitoring System Replacement	<p>a)Network topology.</p> <p>b)System block diagram.</p> <p>c)General system description</p> <p>d)Description of normal operator instructions and operator input options</p> <p>e)Identification of redundancies</p> <p>f)Electrical wiring drawings</p> <p>g)Electrical connection drawings</p> <p>h)Cable arrangement drawings identifying cable requirements, routing, and connections</p> <p>i)BOM for the complete system</p> <p>j)Confirmation of all software to be applied</p> <p>k)Description of all software operator access requirements, any operator software access restrictions and how they are managed.</p> <p>l)Complete I/O list with description of functionality at each</p> <p>m)Description of all control functions</p> <p>n)Description of Power Management philosophy to be applied, definition of functional controls and integration detail between CCAMS and all related systems</p> <p>o)Failure Modes and Effects Analysis of all control functionality of the new CCAMS and overall approach to Power Management</p> <p>p)Preliminary HMI page presentation drawings or images</p> <p>q)Any other documentation as required for system approval by Class.</p>
19.3		
19.4		
19.5	MCR Console Refurbishment	<p>The MCRCD =documentation package must include:</p> <p>a)MCR console layout proposal drawings based on detail of all new hardware requirements as defined in each related specification items. The final mounting and positioning of all items, equipment must be laid out on drawings, to a scale of 1:25, for review and acceptance by the CG TA.</p> <p>b)The integrated system must be arranged with sufficient redundancy and/or segregation so as to prevent loss of control, monitoring or alarm functions for multiple main functions upon a single failure.</p> <p>c)Revision and or modification of the proposed layout of consoles and the associated components, based on the inputs from Canada.</p> <p>d)Once the Design has been completed, a copy of the design report is to be provided to Canada for final verification and confirmation.</p> <p>e)The design must meet the requirements of both Class and TCMSS and the Contractor must be responsible for the development and producing of the required construction and installation drawings needed, as well as any submissions to Class (ABS) for approvals.</p>
19.6		

DESIGN REVIEW MEETINGS DELIVERABLES TABLE			
ITEMS		PDR - Preliminary Design Review Meeting (between Oct 2 to 22, 2022) PRELIMINARY DOCUMENTS	CDR - Critical Design Review Meeting (between Jan 20 to Feb 9, 2023) FINAL DOCUMENTS
19.7	Wheelhouse Layout & Console Rework	<p>The documentation package must include:</p> <p>a) Console layout proposal drawings based on detail of all new hardware requirements as defined in each related specification items. The final mounting and positioning of all items, equipment must be laid out on drawings, to a scale of 1:25, for review and acceptance by the CG TA.</p> <p>b) Revision and or modification of the proposed layout of consoles and the associated components, based on the inputs from Canada.</p>	<p>The documentation package must include:</p> <p>a) Console layout proposal drawings based on detail of all new hardware requirements as defined in each related specification items. The final mounting and positioning of all items, equipment must be laid out on drawings, to a scale of 1:25, for review and acceptance by the CG TA.</p> <p>b) Revision and or modification of the proposed layout of consoles and the associated components, based on the inputs from Canada.</p> <p>c) Once the Design has been completed, a copy of the design report is to be provided to Canada for final verification and confirmation.</p> <p>d) The design must meet the requirements of both Class and TCMSS and the Contractor must be responsible for the development and producing of the required construction and installation drawings needed, as well as any submissions to Class (ABS) for approvals.</p>

Solicitation No. - N° de l'invitation
F7049-200041/B
Client Ref. No. - N° de réf. du client
F7049-200041

Amd. No. - N° de la modif.
File No. - N° du dossier
043mdF7049-200041

Buyer ID - Id de l'acheteur
043md
CCC No./N° CCC - FMS No./N° VME

Annex “W”

ISSOP-06 COVID-19 Process for Non-CCG Personnel Accessing a CCG Facility/Vessel

ISSOP-06

COVID-19 PROCESS FOR NON-CCG PERSONNEL ACCESSING A CCG FACILITY/VESSEL

Purpose

The purpose of this Incident Specific Standard Operating Procedure (ISSOP) is to provide direction for granting access to Non-CCG Personnel entering CCG facilities/vessels. For supernumeraries joining vessels or aircraft, refer to [ISSOP-06A Process for Supernumeraries joining CCG Vessels or aircraft](#).

Screening shall occur for all personnel prior to site access

Step	Process for Non-CCG Personnel Accessing a CCG Facility/Vessel
1	<p>Non-CCG Personnel include but are not limited to: cleaning staff, commissionaires and contractors.</p> <p>All access to the site must be necessary to maintain CCG program delivery.</p>
2	<p>CCG employees, Vessel Managers, Superintendents, arranging access for Non-CCG Personnel to any Canadian Coast Guard Facility in the Atlantic Region (e.g. CCG Headquarters, SAR stations, MCTS sites, CCG Vessels, helicopter hangars, etc.) shall follow the process outlined below:</p> <ol style="list-style-type: none"> Inform the Non-CCG personnel that they will be required to complete the COVID-19 Canadian Coast Guard Screening Questionnaire – Atlantic Region (SQ) and Temperature Verification on site prior to entering/accessing a Coast Guard Facility/Vessel and that their information will be retained for contact tracing purposes only; Instruct the Non-CCG personnel to report to the appropriate screening area for the site they will be accessing to complete the screening. Inform the Non-CCG personnel (out of province personnel, or persons from areas of increased COVID-19 activity) of the ability to have a voluntary or optional COVID-19 test prior to arrival on site to facilitate the requirement for isolation timings. <ul style="list-style-type: none"> (May not be available at remote locations and should not be used as a sole guideline) When practical, advance notice of 48 hrs prior to arrival of Non-CCG personnel shall be given to Commanding Officers of vessels/helicopters/sites to be attended, so arrangements can be made for ongoing operations. <p>In the event 48 hrs notice is not practical, written approval must be granted by the Commanding Officer of vessels/helicopters/sites prior to Non-CCG personnel being granted access.</p>

	For questions or concerns please call the Regional Operations Centre (709) 772-7043.												
3	<p>Entry to any facility or vessel should be avoided if possible. Anyone entering a CCG facility or vessel shall follow COVID-19 PREVENTION PROTOCOLS and self-monitor for SYMPTOMS.</p> <p>A face covering shall be worn if physical distancing (2m or 6 feet) cannot be maintained. Ultimate discretion on wearing of a face covering shall be up to the Commanding Officer (or their delegate), or the shore-based Senior Designated Officer for the facility.</p>												
4	<p>Daily onsite screening and temperature verification shall be conducted in accordance with ISSOP-07 Screening and Temperature Verification for all individuals accessing CCG sites.</p> <p>There are designated screening facilities located at the following sites:</p> <table border="0"> <tr> <td><u>ST. JOHN'S, NL</u></td><td><u>DARTMOUTH, NS</u></td></tr> <tr> <td>250 Southside Base (New Bldg)</td><td>50 Discovery Drive</td></tr> <tr> <td>Screening Available 24/7 via Kiosk</td><td>Screening Available 24/7 via Kiosk</td></tr> <tr> <td>280 Southside Road Gate (Old Bldg)</td><td>BIO Jetty Gate - Alantra Trailer</td></tr> <tr> <td>Gilbert Boardroom</td><td>Mon-Fri : 06:30-17:00 (Local)</td></tr> <tr> <td>Mon-Sun (7 days): 06:00-18:00 (Local)</td><td>Sat-Sun : 06:30-13:30 (Local)</td></tr> </table> <p>Upon screening, Non-CCG Personnel (including contractors) accessing a CCG Vessel will be issued an access card date stamped for the day of screening. Personnel will be required to present this card at the gangway prior to being granted access. Once access is granted, the individual is then required to sign onto the ship's visitors log, and will sign out at all times when departing the vessel. Card will be kept with Non-CCG personnel at all times when accessing vessel/helicopter/site.</p> <p>Non-CCG Personnel will be met at the gangway by the applicable CG Representative, provided necessary vessel safety familiarization (on first day only) and instructions, then directed to the work site location via a pre-planned route.</p> <p>Personnel are required to follow all Covid-19 protocols for social distancing and PPE (wearing a mask) at all times when on CCG Premises.</p> <p>Personnel are required to adhere to all instructions provided by CCG, and failure to comply will be reported to company management, and may result in the individual being required to depart the CCG premises.</p> <p>CCG Vessels located outside of BIO CCG Base, Dartmouth, NS or CCG Base St. John's, NL are required to complete Covid-19 screening on a daily basis for all Non-CCG Personnel boarding the vessel.</p> <p>Personnel must follow the site specific screening and temperature verification process for any location where a designated screening facility has not been established or for after hours screening.</p>	<u>ST. JOHN'S, NL</u>	<u>DARTMOUTH, NS</u>	250 Southside Base (New Bldg)	50 Discovery Drive	Screening Available 24/7 via Kiosk	Screening Available 24/7 via Kiosk	280 Southside Road Gate (Old Bldg)	BIO Jetty Gate - Alantra Trailer	Gilbert Boardroom	Mon-Fri : 06:30-17:00 (Local)	Mon-Sun (7 days): 06:00-18:00 (Local)	Sat-Sun : 06:30-13:30 (Local)
<u>ST. JOHN'S, NL</u>	<u>DARTMOUTH, NS</u>												
250 Southside Base (New Bldg)	50 Discovery Drive												
Screening Available 24/7 via Kiosk	Screening Available 24/7 via Kiosk												
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Gilbert Boardroom	Mon-Fri : 06:30-17:00 (Local)												
Mon-Sun (7 days): 06:00-18:00 (Local)	Sat-Sun : 06:30-13:30 (Local)												
5	<p>Each Facility/Vessel shall complete the CCG Atlantic Region COVID-19 Sign-In Sheet (SI)</p> <p>Data must be stored by date to allow for rapid generation of workplace access history for contact tracing purposes. Information must be stored according to COVID-19 Canadian Coast Guard Screening Questionnaire – Atlantic Region (SQ).</p>												