



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

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

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

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

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

Title - Sujet CCGS Terry Fox VLE		
Solicitation No. - N° de l'invitation F7049-200041/B		Amendment No. - N° modif. 021
Client Reference No. - N° de référence du client F7049-200041		Date 2022-02-24
GETS Reference No. - N° de référence de SEAG PW-\$\$MD-043-28394		
File No. - N° de dossier 043md.F7049-200041	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2022-05-17 Heure Avancée de l'Est HAE		
F.O.B. - F.A.B.		
Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Pandini, Madeleine		Buyer Id - Id de l'acheteur 043md
Telephone No. - N° de téléphone (873) 353-9119 ()		FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:		

Comments - Commentaires

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

Instructions: See Herein

Instructions: Voir aux présentes

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

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.
021
File No. - N° du dossier
043md F7049-200041

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

Solicitation Amendment # 021

This amendment is hereby raised :

1. To include Questions and the Responses for the solicitation.
2. To update Annex A - Statement of Work, SOW Part A EG 01.
3. To update Annex A - Statement of Work (SOW), Part B SOW item 12.1.
4. To update Annex A - Statement of Work (SOW), Part B SOW item 12.14.
5. To advise of an upcoming pricing data sheet (PDS) update.

1. To include Questions and the Responses for the solicitation.

A log (added at the end of this amendment) includes all previous Questions and Answers. This Amendment 021 adds questions ref 211 to 217 to the log.

2. To update Annex A - Statement of Work, SOW Part A GR 01.

Annex A - Statement of Work (SOW), located in Annex A - Statement of Work folder (included in the attachment 'annex_annexe_a_REV1.zip') is revised.

In subfolder 2, SOW PART A, and in file 'GR Section - General Requirements REV 1'.

Under section GR 01 GENEAL REFERENCE AND REQUIREMENTS:

A)

- Delete (in its entirety):

7.1

- Insert:

7.1. General

- 7.1.1.1. The vessel is known to contain hazardous materials, both lead paint and asbestos having been identified previously and documented in a Lead Paint Survey and Asbestos Survey, both included in SOW Appendix A and summarized in document CCGS Terry Fox Hazardous Material Summary (also included in Appendix A).
- 7.1.1.2. The Contractor must acknowledge the content of these surveys and include the cost of all management and remediation efforts, as required, when specified Work includes disturbing of areas containing known hazardous materials.
- 7.1.1.3. The Contractor must remove all hazardous materials that will be disturbed in the execution of the Work; all Work sites must be made safe for workers. All hazardous material assessments, remediation, and disposal must be dealt with in accordance with applicable Federal, Provincial and Municipal regulations. If any conflicts exist between the applicable regulations, the most stringent must apply.
- 7.1.1.4. The Contractor must include all costs associated with the removal, handling, storage, disposal

and/or working in the vicinity of hazardous materials such as asbestos and lead, on board the vessel, including those costs resulting from the need to comply with applicable laws and regulations in relation to the removal, handling, disposal or storage of hazardous materials or toxic substances as set out in document CCGS Terry Fox Hazardous Material Summary and the hazardous material survey reports found in Annex "A"- Statement of Work (part of the Technical Data Package, TDP). Remediation costs should be included in the individual SOW Item costs.

- 7.1.1.5. The Contractor must engage the services of an accredited hazardous materials assessment service provider to conduct a survey of the vessel prior to the vessel's arrival at the Contractor's facility to:
 - validate the TDP information provided for lead and asbestos per the CCGS Terry Fox Hazardous Material Summary and the reports in the TDP on hazardous materials; and
 - assess all work areas that must be disturbed to carry out the SOW Work., for the presence of any hazardous materials.
- 7.1.1.6. Canada will make the vessel available during the Initial Work Period for the Contractor to carry out the survey work prior to vessel arrival at the shipyard. Canada will provide the Contractor a minimum of 28 days of notice of vessel availability. The cost of the survey must be included in the bid price.
- 7.1.1.7. The Contractor must provide the TA with:
 - a) a report of all hazardous assessment findings, also highlighting any lead or asbestos concentrations found to be higher than the values indicated in the TDP hazardous reports, or assumed i.e. refer to 7.2.1.2 b);
 - b) a hazardous materials remediation plan for each SOW item; and
 - c) a certification that all hazardous materials have been identified for the known Work, assuming that the areas were accessible during the survey.
- 7.1.1.8. Remediation Work resulting from discrepancies highlighted in 7.1.1.7 (a) will be addressed using the PWGSC 1379 process.
- 7.1.1.9. The remediation plan must include a schedule for the remediation Work completion. Hazardous materials removal and remediation must be reflected in the overall Project Schedule for each of the SOW items.
- 7.1.1.10. Hazardous material removal and remediation must commence within the first month of the vessel's arrival at the Contractor's facility; the overall Contract schedule impact must be minimized.
- 7.1.1.11. The completion date for the Work must take into account the fact that the removal, handling, storage, disposal and/or working in the vicinity of hazardous materials such as asbestos, lead and other hazardous materials or toxic substances may be affected by the need to comply with applicable federal, provincial and municipal laws or regulations and that this will not be

considered to be an excusable delay as set out in the Excusable Delay clause of the General Conditions, which forms part of the resulting Contract

7.1.1.12. After the arrival of the vessel at the Contractor's facility, the Contractor must continue to assess for hazardous materials in circumstances where sampling for assessment was previously unattainable (for example: 1) sampling of the gasket for asbestos content, after disassembly of a high temperature pipe, 2) check the coating for lead content on a previously inaccessible bulkhead). Assessments must be conducted as soon as possible, in a proactive effort, to identify hazardous materials in Work areas, so as to plan and schedule remediation in a timely fashion. Proactive efforts are intended to minimize delays and not interfere with the overall VLE schedule completion date.

B)

- Delete:

7.2.1.2

- Insert:

7.2.1.2 Contractors must initially assume:

- a) All existing paint in areas addressed in CCGS Terry Fox Hazardous Material Summary will contain lead at the indicated levels; Contractors must include the cost of addressing lead paint removal and risk mitigation in accordance with EACO Environmental Abatement Council of Canada (Formerly 'Environmental Abatement Council of Ontario') Lead Guideline for Construction, Renovation, Maintenance or Repair, October 2014, as a minimum requirement.
- b) All existing paint in Work areas not addressed in CCGS Terry Fox Hazardous Material Summary will contain lead at levels between 1000 and 5000 ppm; Contractors must include in their price the cost of addressing lead paint removal and risk mitigation in accordance with EACO Environmental Abatement Council of Canada (Formerly 'Environmental Abatement Council of Ontario') Lead Guideline for Construction, Renovation, Maintenance or Repair, October 2014, as a minimum requirement.

C)

- Delete:

7.2.1.10

- Insert (**edits shown in bold italics**):

7.2.1.10 The Contractor must quote, separately, the following unit costs and include the concentration thresholds for each Work Type (for items b to h) as listed below:

- a) ***Unit price for sampling/testing paint for lead content (price out 200 number initially)***
- b) Paint containing lead Type 1 removal (indicate \$/sq. m.)
- c) Paint containing lead Type 2a removal (indicate \$/sq. m)
- d) Paint containing lead Type 2b removal (indicate \$/sq. m)
- e) Paint containing lead Type 3a removal (indicate \$/sq. m)

- f) Paint containing lead Type 3b removal (indicate \$/sq. m)
- g) **Disposal of one (1) tonne of waste containing lead at levels not considered hazardous waste (indicate \$/metric tonne)**
- h) **Disposal of one (1) tonne of waste containing lead at levels considered hazardous waste (indicate \$/metric tonne).**

D)

- Insert:

7.3.1.6 With reference to "Asbestos Reassessment Terry Fox CCGS Mar 11, 2021", section 3, page 90/102, the Contractor must assume the following:

- i. All black insulating mastic fire stop encountered at electrical cable installations contains asbestos at levels indicated in the Asbestos Reassessment Report.
- ii. All grey fire stop at electrical cable penetrations contains asbestos at levels indicated in the Asbestos Reassessment Report.
- iii. All red duct joint sealant contains asbestos at levels indicated in the Asbestos Reassessment Report.
- iv. All black window caulking contains asbestos at levels indicated in the Asbestos Reassessment Report.

E)

- Insert:

7.6 Reporting

7.6.1.1 The Contractor must document all activity associated with hazardous materials and present a full report detailing all hazardous materials activity over the duration of the project.

7.6.1.2 This report must include:

- i. The Contractor's pre-arrival hazardous materials survey including an inventory of all material samples collected, their locations, and test results.
- ii. A report of all additional hazardous materials testing post vessel arrival at the Contractor's facility including an inventory of all material samples collected, their locations, and test results.
- iii. Detail of all remediation efforts undertaken, including locations and scope of material removals at each location.
- iv. Certificates of disposal for all hazardous materials encountered.
- v. Proof of all involved subcontractor accreditation for hazardous materials sample collection and reporting as well as proof of accreditation for all laboratories involved in testing of samples for hazardous material content as applicable.

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.
021

File No. - N° du dossier
043md F7049-200041

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

- vi. Proof of all subcontractor accreditation for remediation of hazardous materials involved as applicable.

3. To update Annex A - Statement of Work (SOW), Part B SOW item 12.1.

Subsequent to question ref 215 response,
Annex A - Statement of Work (SOW), located in Annex A - Statement of Work folder (included in the attachment 'annex_annexe_a_REV1.zip') is revised.

In subfolder 3, SOW PART B, and in file 'Part B Section 12 – Propulsion & Maneuvering Systems REV1'.
Under section 12.1 PROPULSION MACHINERY REPLACEMENT:

- Delete (in its entirety):
3.4.3.12
- Insert:

3.4.3.12 The Contractor must include an option, if available, to provide the ME's with local engine-mounted gauges having displays for the following operational parameters:

- a) Lube oil pressure and temperature before and after cooler
- b) Fuel oil pressure after booster pump
- c) HT and LT Jacket water pressures and temperatures in and out of engine
- d) Start air pressure
- e) Control air pressure
- f) Individual cylinder exhaust temperatures
- g) Exhaust temperature before and after turbocharger
- h) Charge air pressure and temperature before and after charge air cooler

If the option for local mechanical gages is not available, then parameters a) to h) above must be included in the engine electronic monitoring package and additional redundancy in electronic device monitoring must be provided for the following parameters:

- a) Lube Oil Pressure to main bearings
- b) Cooling Water Pressure
- c) Cooling Water Temperature to Engine
- d) Cooling Water Temperature out of Engine
- e) Charge Air Pressure
- f) Fuel Oil Pressure
- g) Exhaust Gas Temperature Before and After Turbocharger

4. To update Annex A - Statement of Work (SOW), Part B SOW item 12.14.

Subsequent to question ref 216 response,
Annex A - Statement of Work (SOW), located in Annex A - Statement of Work folder (included in the attachment 'annex_annexe_a_REV1.zip') is revised.

In subfolder 3, SOW PART B, and in file 'Part B Section 12 – Propulsion & Maneuvering Systems REV1'.
Under section 12.14 CONTROLLABLE PITCH PROPELLOR SYSTEM:

- Delete (in its entirety):
1.1.1.2
- Insert:

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.

021

File No. - N° du dossier

043md F7049-200041

Buyer ID - Id de l'acheteur

043md

CCC No./N° CCC - FMS No./N° VME

1.1.1.2 General scope must include the following:

- a) Inspect, service and bench test six hydraulic pumps
- b) Overhaul six hydraulic pump motors
- c) Drain, clean, and inspect all associated oil reservoirs and header tanks.
- d) Replace all flexible hoses
- e) Flush and clean hydraulic systems
- f) Clean and/or replace all oil filters,strainers
- g) Inspect, adjust, and calibrate all mechanical control linkages
- h) Refill and return to service with new oil (refer to 3.2.1.2).

5. To advise of an upcoming pricing data sheet (PDS) update.

An update to the PDS (ANNEX H – Appendix 1 – Pricing Data Sheet), addressing options and allowances (from previous amendments and the current amendment), for example, is expected to be published in the latter part of March.

CCGS Terry Fox VLE - F7049-2000041/B, Question and Answer Log		
Ref	Question	Answer
Note that amendments 001 to 010 have been released separately and copied here, for convenience. Any discrepancy in language between the questions and answers will result in the original amendment wording taking precedence.		
		AMENDMENT 001 - Ref 1 to 3
1	Am I correct to interpret that if we (e.g. Company ABC - North America) were to send you an NDA (non-disclosure agreement) signed by the authorized representative of another legal entity of ours (e.g. Company ABC - Europe, where our international engineering team works), that we (Company ABC - North America) would be able share the confidential information (contents of the Technical Data Package, TDP) with the entire team (from Company ABC - Europe) in that legal entity? Or do you need an NDA for each one of those engineers (or employees)?	<p>Correct. To share the information with other colleagues from a different entity (where Company ABC - North America needs to share information with Company ABC - Europe, to acquire their engineering expertise, for example), then Company ABC - North America and Company ABC - Europe will both submit NDAs, signed by each authorized representative, who will distribute the information (on a need-to-know basis) to their employees within their entity; each employee is not expected to sign an NDA.</p>
2	Does Canada have specific guidelines for the transfer of information (from the TDP) to our suppliers & subcontractors? Are they considered employees according to the terms used in Annex S (non-disclosure agreement)?	<p>Anyone to whom the drawings or documents (contents of the TDP) are disclosed to, must sign a non-disclosure agreement (i.e. the entity's authorized representative must sign on that entity's behalf). Have your subcontractors and suppliers also sign the NDA and either:</p> <ul style="list-style-type: none"> a) forward it to me (the signed NDA) on their behalf and then, you can send them the applicable TDP drawing/document; or b) forward the signed NDA and request that I send them the links (and any updates), and then you tell them which TDP drawing/document to use, exactly; or c) the supplier/subcontractor can send the NDA directly to me, then I will send them the link and updates, and you can tell them which TDP drawing/document to use (some suppliers have already sent me the NDA).

3	When will the Pricing Data Sheet (PDS) for this project be published on BuyandSell.gc.ca?	The PDS is targeted to be published approximately a week before the first Site Visit day of November 30th.
4	Are there going to be 4 complete days for the site visit to the vessel? Or will each group (such as a ship yard bidder, supplier, or engineering designer, for example) only have a predetermined time period for the visit?	<p>AMENDMENT 002 - Questions 1 to 2 (ref 4-5)</p> <p>Given the situation with the pandemic, Canada is going to assign time slots for the Site Visit to each group wanting to attend. Canada, therefore, needs to know the total number of groups attending in order to maximize the time slot duration on the vessel for each group. Amendment 001 requested your responses no later than 6 pm November 17, 2021.</p> <p>CCGS Terry Fox VLE (F7049-200041/B) - Buyandsell.gc.ca</p> <p>If you have not responded yet and would like to attend the Bidders' Conference or the Site Visit (or both), please respond so that Canada can determine and share the assigned vessel time slots and time slot durations with each party (on November 18), so that they can proceed with making arrangements.</p>
5	I was discussing a potential site visit with our team this morning and basically the necessity to attend is somewhat influenced by the quality of the vessel 3d scans etc. When is the government intending to release this information? If not before the site visit will there be another opportunity to visit once this information is available?	<p>3D scans have been made available, per SOW Part A GR 01 section 1.1.1.7 instructions (also indicated in SOW Appendix A, under 'Other Resources'). Additional virtual 3D scans will likely be available by November 22 (end of day). Another vessel viewing is not anticipated. Efforts will be made to accommodate late confirmers but these slots may not be guaranteed to be as long in duration as predetermined slots.</p>
6	Can videos and photographs be taken during the Site Visit - Vessel?	<p>AMENDMENT 003 - Questions 1 to 2 (ref 6-7)</p> <p>Videos and photographs are permitted for the purposes of clarifying the interpretation for the SOW.</p>
7	When will the Pricing Data Sheet (PDS) for this project be published on BuyandSell.gc.ca?	<p>AMENDMENT 004 - Questions 1 to 2 (ref 7-8)</p> <p>The PDS is targeted to be published approximately a week before the Bidders' Conference on December 6.</p>
8	Can you kindly advise how this project has achieved an exemption from having ITB requirements?	<p>AMENDMENT 005 - Questions 1 to 3 (ref 8-10)</p> <p>There are a number of factors to consider in determining the applicability of the ITB Policy including, but not limited to, the project pre-tax dollar value, scope and duration as well as the portion of labour that will be carried out in Canada. An assessment was conducted and it was determined that the ITB Policy would not apply for the Terry Fox requirement.</p>
9	Is this solicitation considered part of the NSS?	<p>Yes, the Terry Fox VLE requirement falls under the National Shipbuilding Strategy.</p>

10	<p>Under the NSS Canada has employed a successful contracting strategy of awarding a funded ancillary contract to the shipyard to perform detailed design work, followed by a funded definition contract to complete the detailed engineering work and produce an indicative price from which Canada can obtain funding or budget certainty.</p> <p>However, in this solicitation PSPC is expecting the bidder to be able to complete the VLE detailed design work during the bid phase, to a sufficient level of confidence, to offer a firm price. This is not possible to any acceptable level of accuracy. It is also unfair to ask bidders to take on this level of work at the bid phase. Bidders are aware that their efforts will lead to wildly inaccurate pricing and an unsuccessful VLE, even if determined the lowest responsive bidder.</p> <p>This procurement strategy is extremely high risk to both parties and will work contrary to the very successful contracting strategies currently employed under NSS.</p> <p>Will Canada re-consider this procurement strategy to allow for a balanced risk approach that will lead to a successful outcome for both the Bidder and Canada?</p>	<p>Canada acknowledges that ancillary contracts have been used in certain circumstances, however, they are not considered for competitive procurement processes under the NSS.</p> <p>Industry responses to the RFI posted in October 2020 confirmed the procurement approach, that being, to bundle the procurement of long lead items with the VLE work carried out at the shipyard. Canada is moving forward with this procurement strategy.</p> <p>Canada appreciates the level of effort required to prepare bid packages. The Terry Fox VLE is a unique work package that requires a different level of effort compared to previous refit/VLE requirements. Bidders are encouraged, as needed, to work with key suppliers, engineering and/or project management firms to develop their bid. Canada has included an initial 8 month work period after contract award to carry out detailed design work and procure the long lead items.</p>
----	--	---

AMENDMENT 006 - Questions 1 to 3 (ref 11-13)	
11	SOW item 12.1, section 3.4.2.2. The ME's must be medium speed, four stroke diesel engines, with medium speed being defined for the purpose of this SOW as being between 600 rpm and 750 rpm. SOW item section 12.1 3.4.2.20. The ME's must be capable of accommodating Combinator Mode (CM) of propulsion control wherein engine and propeller speed is variable and matched with propeller pitch to offer maximum PM efficiency of operation.
12	Considering that, the Marine Industry recognizes that Medium speed engines are normally rated at up to 900 rpm and, as such, would "Medium Speed" engines that meet all other requirements be acceptable if rated at 900 rpm? What about the four strokes, is it mandatory or a 2-stroke engine would also be a possibility as well? We have both products and would like to be able to provide the most suitable quote, which could be a 2-stroke engine and its very cost attractive lifetime maintenance price.
13	In future amendments, is it possible to combine questions and answers so that the last amendment includes all the amendments for the project?
14	We note that many significant changes (per Amendment 005) were being made to Annex A - Statement of Work (SOW). Will a revised SOW be published in the near future to incorporate these changes?
AMENDMENT 007 - Questions 1 to 21 (ref 14-34), Bidders' Conference Minutes	
15	How many days will Canada take to analyse the bid (to evaluate the bid)?
	The bid evaluation period is estimated to last between one to two months

16 (question submitted outside the Conference): The proposed basis of selection is lowest cost compliant, using only mandatory criteria, with no rated elements. This approach poses risk to both Canada and the bidder as the lowest price with the least capable bidder is not a formula for project success. A lowest cost evaluation using only mandatory criteria provides no assurance of the capability or quality of the proposed solution. The addition of evaluated technical criteria will provide Canada a greater assurance of the contractor's capabilities. Consequently, the bidder requests a change to the evaluation criteria to include a mix of mandatory and evaluated technical criteria, with weighting assigned to both technical and price categories. Given the highly complex nature of this refit, limited timeframe and heavy engineering input, the Bidder recommends a best value selection method that scores price and technical merit in a ratio of 40:60.	The basis of selection and evaluation criteria method will not be changed. The mandatory criteria have been established to ensure that compliant bidders have the ability to carry out the Work (SOW) after Contract award.	
17 Please confirm, at a suitable time, what the overall schedule is. The minimum period, with no gap between the engineering period and execution period seems to be 26 months. Is this correct?	The minimum Total Work Period is 26 months. The Vessel Work Period duration is fixed at 18 months (from April 1, 2022 to September 30, 2023), however the duration of the Initial Work Period is a minimum of 8 months. It could be as long as 10 months, subject to the duration of the solicitation process.	
18 Evaluation Process. Can Canada define what are all "Eligible Mandatory Criteria?" How do these differ from the 11,000+ Must statements in the SOW?	(and, also, as submitted outside of the Conference, below)	Canada evaluates the mandatory criteria identified in the RFP (Annex P) in order to ensure the Bidder's ability to carry out the Work (SOW) after Contract award. The SOW includes contractual obligations (must statements) that the Contractor must meet after Contract award.

19	<p>In terms of a phased analysis of the bid, Annex H appears to be the only document for comparison between eligible bidders. Is there any technical evaluation scoring as well; especially since lifecycle costs and known work can be a significant number. The only technical aspect is if the replacement systems have a lower true life cost. That will significantly save for that technical solution. Is there any analysis of technical requirement weighted against these for pricing evaluation?</p>	<p>The Basis of Selection is for the lowest cost compliant bidder. To be compliant, the Bidder must satisfy the mandatory requirements listed in Annex P, in addition to submitting the requirements listed in the RFP, as highlighted in Annex O, the checklist guidance document. There are no point-rated evaluation criteria.</p>
20	<p>In Annex H – Table of life-cycle cost, the total cost includes a 15 year period for lube oil but only an annual cost for the fuel. Could Canada explain that? The thought behind comparing 15 years vs 1 year?</p>	<p>That is correct. A costing exercise was conducted and, from the results, it was decided to include an annual fuel cost in the total life cycle cost, so that it would not outweigh other relevant criteria.</p>
21	<p>The equipment warranty was indicated to be 1 year from acceptance. Is the acceptance milestone from equipment FAT or CCG SAT acceptance?</p>	<p>The equipment warranty starts after successful sea trials and acceptance by the Canadian Coast Guard.</p>
22	<p>Can a Bidder accumulate credits or transfer credits related to the IPC from other programs, much like what is done in the ITB program? For ITBs, if we have a program with unused credits (for example, the Louis Saint Laurent does not have an ITB but it does have Canadian work on it that we are allowed to credit to Davie's overall ITB budget; that credit can be used towards other programs that do require an ITB (such as the ferry build program). Can the same be done for IPCs (for example, if another ship does not have an IPC requirement, but it does use Indigenous Participation; can that be credited and used towards the Terry Fox program or does the IPC need to be directly for the Terry Fox VLE? If we have contracts such as the one on the Louis St. Laurent that does not have a IPC requirement can we use credits from that project on this contract?)</p>	<p>The response to this question shall be elaborated on in a subsequent amendment.</p>
23	<p>Annex P - Mandatory Technical Requirements. Can Canada confirm how compliance with the Mandatory Technical Requirements will be assessed. As these will not be scored, how will pass/fail be measured?</p>	<p>For mandatory technical requirements listed in Annex P, each requirement (M#) includes two parts:</p> <ol style="list-style-type: none"> 1) The first part states the requirement; and 2) The second part identifies what needs to be submitted in order to demonstrate compliance. <p>The Phased Bid Compliance Process (PBCB) provides opportunities where Canada may seek clarification or request additional information from Bidders. For details regarding the PBCB, refer to article 4.1.1 of the RFP.</p>

24	<p>Within the PBCP there are three phases. Phase I is a simple review for Financial Completeness. Phase II will be limited to a review of the Technical Bid to identify any instances where the Bidder has failed to meet any Eligible Mandatory Criteria requested for the bid, including evaluation of equivalent products per section 4.1.2, if applicable.</p> <p>However there are no mandatory criteria listed for any deck equipment. As such how will the deck equipment offered be assessed to ensure that it at minimum meets the listed criteria outlined within the individual sections of the annex A, SOW. If there are no assessment criteria then a less expensive product could be offered that does not meet the listed "must" criteria within the SOW. Currently as the Phased assessment is written there is nothing to stop this occurring.</p>	<p>The awarded Bidder will be under contract to satisfy each equipment requirement specified in the SOW. Canada also requires information on proposed equipment per Annex Q; proposed equipment must meet all mandatory requirements specified for each equipment SOW item.</p>
25	<p>(submitted outside the Conference) The SOW is rampant with the statement: “to the satisfaction of the Technical Authority”. As “satisfaction” is subjective, in order to be able to bid a subjective re-requirement the Bidder requires Canada to either delete this clause or replace it with appropriately defined acceptance criteria.</p>	<p>The Contractor is to demonstrate to the Technical Authority, that the delivered work satisfies the requirements called up or outlined in the SOW and any applicable regulation.</p> <p>PSPC will oversee and negotiate any issues or disputes that could potentially arise. PSPC will also have an onsite technical representative present during the Vessel Work Period.</p>
26	<p>(submitted outside the Conference) If the Inspection Authority is also the Technical Authority, how will PSPC ensure that the inspection of the work will be objectively conducted? The Technical Authority has a vested interest to interpret the specification in its favour. In order to ensure that the inspection of the work is done objectively and fairly to the Contractor, the Inspection organization must reside outside of the Client Department. In order to ensure a fair and equitable inspection of the work, the Bidder requires that the Inspection Authority to be an objective 3rd party.</p>	<p>The Canadian Government's structure identifies the Canadian Coast Guard as the Technical Authority and the Inspection Authority for the project. The Canadian Coast Guard will identify different individuals to perform these roles but they will both be individuals employed by or engaged by the Canadian Coast Guard.</p> <p>PSPC will oversee and negotiate any issues or disputes that could potentially arise. PSPC will also have an onsite technical representative present during the Vessel Work Period.</p>

27 (submitted outside the Conference) GR 01 section 5 lists many Reference Standards without clear statements regarding their full applicability. The standards are indicated as mandatory but may only be partially applicable. In order to accurately bid the Work, the Bidder requires Canada to be more specific as to what precise sections of the references are applicable.	<p>The Acts and Regulations referenced in SOW Part A GR 01 sections 5.2 to 5.5 are mandatory. Any standards, rules, codes or guideline referenced in the regulations (section GR 01, 5.2 to 5.5) are to be considered as mandatory, as well (reference GR 01, 5.6.1.1). The requirements of ABS Rules and any standard referenced within the SOW must also be met as applicable. Standards, rules, codes, or guidelines referenced within a particular SOW item in Part B are also applicable. The Contractor must apply each standard and use professional knowledge and experience to en-sure that the work, as carried out on the Terry Fox, will deliver a vessel that is compliant with all applicable standards.</p>
28 Does the Canadian Coast Guard actually know of five Diesel mechanical CPP machinery sets for ice breaking of the same size as the CCGS Terry Fox? I think that will be a difficult requirement to meet.	<p>From SOW item 12.1, the following sections are extracted:</p> <p>3.3.1.13. The PM must be of proven performance in ice breaking applications in vessels of compa-able arrangement, service, and power. The Contractor must provide five installation references, wherein the proposed PM has been successfully applied on icebreakers with Diesel-Gear CP Propeller PM.</p> <p>3.3.1.14. Alternatively, in lieu of icebreaking application references, the Contractor must provide installation references wherein the proposed PM has been successfully applied in equally arduous service applications to icebreaking involving repeated, rapid, and extreme load changes from maximum load to zero load, and/or maximum load in the ahead direction to maximum load in the astern direction over pro-longed periods of time.</p> <p>Note that 3.3.1.14 offers alternatives. Annex P of the RFP shall be updated (to Rev 1) and published in a subsequent amendment, to clarify and include as a Mandatory Criteria requirement.</p>
29 When we attended the site visit, we were not allowed to look at any of the power distribution equipment; we could not see inside the switchboard because they were live. If this can be the only site visit, how can we know what is inside; the dimension, etc.?	<p>Please provide a request detailing the specific information that you require.</p>
30 Within section 17.1 for the 40 tonne deck crane, there is reference to a recognized Classification Society but it only notes one society within the section (which is ABS) which I believe is for the deck structure. Could you confirm if the crane can be certified to any approved classified society?	<p>The crane must meet the Regulatory requirements set out in SOW Part A GR 01, section 5 includ-ing approval in compliance with the Cargo Fumigation Regulations, section 317, 1 (b). This ap-proval can come from any of the Canadian Government approved Classification Societies. The Bidder must confirm with ABS that they will accept the crane and also meet the requirements of 'ABS Certification of Lifting Appliances (2020)', as applicable.</p>

	31 In some cases, specific equipment has been defined and, in other cases, the equipment replacement is not defined. For the equipment that has been defined, has that equipment been previously (and successfully) integrated on another ship, for instance?	Yes, defined equipment under section 18 is used on other vessels; Canada wishes to have commonality across the fleet.
	32 At some convenient point, will Canada please confirm what the required status of all design work is before the engineering period is considered complete. It is one thing to say the main engines must be ordered but what is the status required for things like deck equipment, auxiliary equipment etc.	Not all equipment purchased is expected to be delivered during the Initial Work Period. Although most of the engineering work is expected to be completed by the Critical Design Review stage (re-fer to Annex V for PDR and CDR deliverables as well as article 7.33.1 in the RFP), Canada may authorize additional time for some engineering work during the Vessel Work Period. The shipyard, however, will also need engineering support during the Vessel Work Period for working drawings and such.
	33 For the warranty, when we talk about sea trials, is it after those conducted in ice?	Warranty will begin after acceptance. The acceptance is assessed after the Sea Trials at the end of the Vessel Work Period (Ice trials are not feasible in October).

		The Canadian Coast Guard is conducting a verification on the content of the TDP. If there are any specific documents or drawings that you require sooner, please submit a specific request. At this point in time, we will not be extending the bid closing date.
		AMENDMENT 009 - Questions 1 to 10 (ref 35-44)
34	I'm a little worried about the timeline and the closing dates. We have not been able to do much yet due to missing drawings. I was wondering if this will be taken into consideration in regards to the closing dates.	
35	1. In regards to bid closing date, five months is unrealistic given the amount of engineering required upfront. Would PSPC be willing to extend the bid period to close in the month of September? 2. At the bidders meeting, it was asked if it was possible to have an extension to the tender deposit. Could a one month extension to the submission of bids be granted?	Canada will extend the bid closing date by one month (May 16, 2022). Bidders are encouraged, as needed, to work with key suppliers, engineering and/or project management firms to develop their bid. Canada has included an initial 8 month work period after contract award to carry out detailed design work and procure the long lead items.
36	Why is a phased bid compliance process (PBCB) being utilized for this project instead of using a pre-qualification process?	It is our policy to apply the PBCP for this type of procurement. It was determined that the prequalification process was not warranted and that it is more advantageous for Canada to keep the competitive process open.
37	The site visit time was inadequate for a requirement as complex as this. Also many key areas did not allow for access, ie electrical switchboards and consoles. Will Canada allow further ship access?	Canada is arranging for a second site visit from Jan 18 to 21, 2022, at Botwood, NL (refer to Amendment 8, item 1).
38	In regards to Request for Proposal (RFP) 2.7.1. Initial Work Period , eight months is inadequate for this work scope. Will Canada consider 14 months for this Definition Phase?	The Initial Work period has an 8 month minimum duration prior to the vessel arrival and the start of the Vessel Work Period. It could be as long as 9 months, subject to the duration of the solicitation process. Not all equipment purchased is expected to be delivered during the Initial Work Period. Although most of the engineering work is expected to be completed by the Critical Design Review stage (refer to Annex V for PDR and CDR deliverables as well as article 7.33.1 in the RFP), Canada may authorize additional time for some engineering work during the Vessel Work Period. The Final delivery of working drawings, for example, can occur after CDR and per the actual Vessel Work Period schedule. At this time, we will not increase the duration of the Initial Work Period.

39	<p>Also in regards to section RFP 2.7.1. Initial Work Period, the RFP states Canada is procuring the one PS. Please can Canada clarify, who is procuring the PS, the shipyard or Canada? Will it be GSM?</p>	<p>The Propulsion System (PS), per the SOW, is supplied by the Contractor and will not be supplied by Canada.</p> <p>In the RFP, Delete (in its entirety):</p> <p>2.7.1</p>
		<p>Insert (<i>the sentence in bold and italics has been modified</i>):</p> <p>2.7.1 The Initial Work Period of the Contract will start at Contract Award and will have a duration of at least eight (8) months. This period will end at the start of the Vessel Work Period, defined in the following section. <i>During this Initial Work Period, the Contractor is procuring one PS, as well as other long lead components (as identified in Annex "A" - Statement of Work) to be fitted onboard the CCGS Terry Fox during the Vessel Work Period.</i></p> <p>Additional preparation activities conducted during the Initial Work Period must include engineering work necessary to ensure the proper integration of new equipment on the vessel, as well as any preparation work required for the other VLE or refit maintenance described in Annex "A" – Statement of Work. Design Review Meetings must take place during this period.</p>
40	<p>In regards to section 4.1.1.2 (i) Phase I: Financial Bid, since to the "satisfaction of Canada" is subjective and undefined, will Canada publish its Evaluation Plan? Will Canada employ a Fairness Monitor?</p>	<p>The evaluation plan is already published per section 4 in the RFP. The need for a fairness monitor was assessed and was determined to be not required.</p>
41	<p>In regards to section 4.1.2 (c) Evaluation Procedures for Proposed Equivalent Products, "if requested during evaluation, the Bidder must submit a sample of any proposed equivalent product to the Contracting Authority for testing". Will this testing be performed by an independent 3rd party or will Canada determine the equivalency? Will Canada pay for this test?</p>	<p>Canada will make arrangements for testing to be performed internally or carried out by a third party, as required, and Canada will pay for this testing.</p>
42	<p>In regards to section 4.1.6 Financial Evaluation, will revisions to the Governmental Covid protocol, post bid closing, be paid by Canada through the normal 1379 process?</p>	<p>Any unforeseen issues that result from COVID-19 protocol-required changes (required by federal/provincial and or municipal revised regulations) after bid closing will be paid by Canada through PWGSC 1379, provided that the Contractor provides acceptable substantiation, which may be subject to an audit.</p>
43	<p>Mandatory Technical Requirement M5-B is a low bar to pass and is not representative of the complexity of a major project level requirement. A \$5M docking for a vessel the size of CCGS Terry Fox is not much. Will Canada consider changing this experience threshold to a more appropriate complexity level, say \$50M?</p>	<p>This requirement will not be modified.</p>

44	<p>In regards to RFP section 4.1.3 Technical Evaluation Who will perform the technical evaluation? How will the evaluation be conducted?</p> <p>1) The first part states the requirement; and 2) The second part identifies what needs to be submitted in order to demonstrate compliance.</p> <p>The Phased Bid Compliance Process (PBCB) provides opportunities where Canada may seek clarification or request additional information from Bidders. For details regarding the PBCB, refer to article 4.1.1 of the RFP.</p> <p>Mandatory criteria are assessed on a simple pass/fail basis. Bids that fail to meet any of the mandatory criteria will be considered non-responsive. For added details refer to section 5.40 and 5.40.1 of the supply manual, as well as section 4.1.1.3 in the RFP.</p>	
45	<p>AMENDMENT 010 - Questions 1 to 14 (ref 45-58)</p> <p>SOW Part B SOW item 12.1 – items 3.4.2.5 & 3.4.2.6: Main Engine size is unclear and per requirement cannot be determined pre-contract award, can Canada please provide desired engine size in kW?</p> <p>Background Question 1: In item 3.4.2.5b it is mentioned that 50% of the vessels full electrical load should be provided by the main engines via the shaft generators. The full electrical load is determined by the load analysis defined in Section 14.1. SOW 14.1 requires a load analysis engineering study, where the CCG is to be consulted regarding usage profiles as per 3.2.1.2e. This consultation is to happen post contract award, therefore it would be impossible to create the load analysis accurately pre-contract award.</p> <p>SOW Part B SOW item 12.1 – item 3.4.2.10, in order to determine whether this requirement can be met the target engine size needs to be known, can Canada specify the engine size?</p> <p>SOW Part B SOW item 12.1 – item 3.4.2.15 what is considered low load operation, and what are considered extended periods of time?</p>	

48	SOW Part B SOW item 12.1 – item 3.4.3.2, what is meant by integration of the ME Controls with the Gearbox and Clutch controls?	The engine control systems must not operate independantly of the clutch and gearbox controls. Engine control functions must be coordinated with clutch and gearbox controls, either directly or through overall propulsion control and/or power management control.
49	SOW Part B SOW item 12.1 – item 3.4.3.6, why is the electronic governor specified to be a Woodward 733, what unique attribute makes this system most suitable? For many diesel engines speed control and load sharing is handled by the local engine control system. Can Canada allow engine maker's engine control system to handle engine speed control and load sharing as an equivalent?	If the proposed engine manufacturer's engine control arrangement incorporates stand alone electronic speed and load management control hardware, then this hardware must be a Woodward 733 electronic control. If the proposed engine manufacturer's control arrangement includes engine speed and load management control as integral functions within the engine manufacturer's control hardware/software, and stand alone speed/load management, then the control hardware is not required; this will be acceptable. Either arrangement must be compatible with the Woodward PGG-FG engine mounted actuators, specified in section 3.4.3.7.
50	SOW Part B SOW item 12.1 – item 3.4.3.12, gauges are typically no longer used in a modern set up. Engine control systems have the process values available on a digital local display unit. Can operational parameters be provided digitally without the need of gauges?	No, the gauges are to be supplied as per the SOW.
51	SOW Part B SOW item 12.1 – item 3.4.5.18, this requirement mentions a PTI, however the need of a PTI is not mentioned in SOW 13. Is a PTI a requirement?	In subfolder 3, SOW PART B, and in file 'Part B Section 12 – Propulsion & Maneuvering Systems', under section 12.1 PROPULSION MACHINERY REPLACEMENT: Delete (in its entirety): 3.4.5.18 Insert: 3.4.5.18. The existing GB arrangement includes a single, auxiliary Power Take Off (PTO) output rated for driving a 1000 kW alternator. The new GB's must be arranged, instead, with an auxiliary drive capable of Power Take Off suitable for application with an electrical machine (alternator) of capacity determined in SOW item #13.1 Shaft Alternators & Power Stabilization. The gear manufacturer must provide PTO components up to and including the mating flange on the PTO shaft for coupling of the new shaft alternator.
52	SOW Part B SOW item 13.1 - Item 1.1.1.2f & 3.3.1.1, sizing of power bridge system is to be based on results of the load analysis defined in spec 14.1. This load analysis calculation requires consultation from CCG regarding usage profiles. This makes it impossible to determine size prior to contract. Can Canada please provide the needed rated output of the system?	CCG to provide additional information in January 2022.

53	SOW Part B SOW item 13.1 - Item 3.3.3.7, modern converters are nowadays of fuseless design, will Canada allow fuseless converters?	Yes, a fuseless design is acceptable, provided the performance and class requirements are met.
54	SOW Part B SOW item 13.1 - Item 3.3.3.12, will Canada allow 460 V 3AC infeed for the converters, as long as same redundancy is achieved?	<p>Use of a switchboard UPS is preferred; the UPS system is redundant and has a larger battery bank. The distance shouldn't cause significant voltage drop. There are rules to comply with, and typically 24VDC UPS systems have the actual output voltage at 27.2V. A combination of two 24VDC sources:</p> <ul style="list-style-type: none"> -the first from the proposed internal 24V supply (460V infeed), and -the second from the switchboard UPS, <p>is acceptable.</p> <p>Note: The proposed solution with an internal UPS contains additional batteries in each unit; batteries of small size that have to be maintained, catalogued, and periodically replaced.</p>
55	SOW Part B SOW item 13.1 - Item 3.7.1, can Canada please provide the technical data of the motors of the bubbler systems and the stern thruster? Are these motors suitable for converter operation? What is the purpose of the VFDs, just for starting or also for operation?	<p>In subfolder 3, SOW PART B, and in file 'Part B Section 13 – Electrical Power Generation', under section 13.1 SHAFT ALTERNATOR REPLACEMENT AND FREQUENCY STABILIZATION:</p> <p>Delete (in its entirety):</p> <p>3.3.7.1 Insert: 3.3.7.1 (NOT USED)</p>
56	SOW Part B SOW item 13.1 - Item 3.3.3.5, is it allowed to provide a different voltage for the PTO converter and generator than what is shown in the single line?	A higher voltage will be acceptable, up to a maximum of 690 Volts.
57	As noted in 5.11.1.1. ABS Rules for Building and Classing Marine Vessels (Marine Vessel Rules) Updated January 1, 2020, apply as well as those standards referenced by ABS Rules. CSA requirements included below must apply where defined by ABS as a requirement to be applied.	<p>As noted in 5.11.1.1.</p> <p>ABS Rules for Building and Classing Marine Vessels (Marine Vessel Rules) Updated January 1, 2020, apply as well as those standards referenced by ABS Rules.</p> <p>CSA requirements included below must apply where defined by ABS as a requirement to be applied.</p>

58	<p>SOW Definition of the SSSI - The Industry Day briefed the SSSI as follows:</p> <p>The Contractor must arrange for supply and integration of both new and existing machinery, systems and equipment by a Single System Supplier and Integrator (SSSI).</p> <p>The SSSI may be the Contractor, a subcontractor, an engine supplier, or an engineering company.</p> <p>The SSSI is responsible for the integration of all the following specification items:</p> <ul style="list-style-type: none"> • Propulsion Machinery • Main engines, clutches, gearboxes and all associated auxiliary machinery upgrades and all associated control and individual component safety and monitoring systems. • Shaft Alternators Replacement and Frequency Stabilization • Switchboard Upgrades and Power Management System • Motor Control Centers Upgrade • Propulsion Control Systems Replacement • Central Control Alarm & Monitoring System Replacement • MCR Console Refurbishment <p>The SSSI can be the Contractor, a subcontractor, an engine supplier, or an engineering company.</p> <p>The requested resume for evaluation is for the SSSI Project Manager (consequently, refer to RFP edits and SOW edits) who acts as the onsite representative overseeing and managing the integration activities.</p> <p><u>Refer to amendment 010 for detailed edits to the applicable RFP sections, including Annex P, and to the applicable SOW sections.</u></p>	<p>The SSSI is, as stated, responsible for:</p> <ul style="list-style-type: none"> • Propulsion Machinery • Main engines, clutches, gearboxes and all associated auxiliary machinery upgrades and all associated control and individual component safety and monitoring systems. • Shaft Alternators Replacement and Frequency Stabilization <ul style="list-style-type: none"> • Switchboard Upgrades and Power Management System • Motor Control Centers Upgrade • Propulsion Control Systems Replacement • Central Control Alarm & Monitoring System Replacement • MCR Console Refurbishment <p>The SSSI can be the Contractor, a subcontractor, an engine supplier, or an engineering company.</p> <p>The requested resume for evaluation is for the SSSI Project Manager (consequently, refer to RFP edits and SOW edits) who acts as the onsite representative overseeing and managing the integration activities.</p> <p><u>Refer to amendment 010 for detailed edits to the applicable RFP sections, including Annex P, and to the applicable SOW sections.</u></p>
		<p>AMENDMENT 011 - ref 59 to 76</p> <p>59 In regards to Request for Proposal (RFP) section 4.1.4 Joint Ventures Experience; why is Canada amending its own policy and restricting JV bidders to only 2 JV members? Will Canada consider following its own policy and remove the 2 JV party restrictions??</p> <p>60 In regards to RFP section 6.7.2 (d) Preliminary Work Schedule, we request that FSR scheduling be removed. It will be impossible to schedule FSRs until post contract award since no contractual commitments will be made by bidders until after contract award. Suppliers will not guarantee FSR services until a contract is in place.</p>
		<p>Canada does not have a policy that restricts us from limiting the number of members in a Joint Venture. After some consideration, the number of participants allowed will be increased from two to three.</p> <p>Refer to item 4 of this amendment for the subsequent RFP edits.</p> <p>For the purposes of the preliminary schedule, this FSR detail can be omitted.</p> <p>Refer to item 5 of this amendment for the subsequent RFP edits.</p>

61 In regards to RFP section 6.7.2.2 Preliminary Work , can Canada explain why the level of detail such as manpower loading is being requested with the bid? The bidder is already certifying that it has adequate resources to meet the contractual delivery date. The level of detail required to provide loading across disciplines before detailed and production engineering is complete is not possible with any level of accuracy. The bidder requests that this requirement be removed.	In support of the Bidder certifying that it has the resources required to meet the contractual delivery date, Canada requires this information to ascertain how the Bidder plans to resource this Work given the level of effort required for this VLE.
62 In regards to RFP section 6.7.2.3 Preliminary Work, the same concern mentioned above for 6.7.2.2 holds true for this requirement, since the determination of direct and indirect labour will not be made until the production planning phase when full labour availability is known.	Refer to the response given in ref 61, above.
63 Mandatory Technical Requirement M-6 is unrealistic and excessive as a proposal mandatory. It will be impossible for a bidder to respond with any accuracy unless PDR has been completed and that will not occur until after Contract Award.	Refer to responses in Questions ref 61 and 62. Annex P has been updated per the response in ref 60, and is attached (ANNEXES_Prev2_Qrev0.zip).
64 RFP Part 2, 2.9 lists bid challenge and recourse mechanisms. However, it appears the neither the OPO (Office of the Procurement Ombudsman) nor the CITT has authority over this bid. Will Canada clarify what opportunities will be available to potential supplier?	The Canadian International Trade Tribunal (CITT) would be a viable option for this bid.
65 The SOW defines bi-weekly and bi-monthly so that these are essentially the same thing (every two weeks). Is this correct?	They are similar; bi-weekly means every 2 weeks, and bi-monthly means 2 times per month. Refer to SOW Part A, GR 01 (2.1.1.4 and 2.1.1.5).
66 Further to the above, many management deliverables are required to be provided bi-monthly, i.e. every two weeks. This will be a large administrative burden. Can Canada confirm that this is the schedule intended?	Yes. Canada needs the information on work progress to be provided bi-monthly i.e. to detect an early indication of any slippage in schedule.
67 RFP Annex H, Appendix 1, requires that Contractors provide life-cycle costing information such as maintenance labour rates 15 years in the future. This is an unrealistic requirement, which will be interpreted inconsistently by bidders. Will Canada please revisit this requirement to something more sensible.	Engine manufacturers publish the interval between major overhauls and costed parts lists for the different engines. Bidders are to use this information to complete the required forms. This is not a new approach.

68	The pricing data sheets (Annex H, appendix 1) assume that all items are stand-alone, which will not be the case. In the event that scope of work is reduced does Canada accept that line items cannot necessarily be used in isolation as the basis for price revisions?	Yes, in the event of a reduction of Work scope, Canada understands that line items cannot be used in isolation as the basis for price revisions.
69	Further to the above, as much of the work is required to be provided by a Single System Supplier Integrator (SSSI), an SSSI will normally quote for much of the work against the integration task, which will be split across many items. Will it be mandatory to split out these costs in an arbitrary way	Yes, the pricing must be weighted out separately in the pricing data sheet.
70	The pricing data sheets (annex H Appendix 1) include a single line item for all project management activities and appear to have nowhere to quote any of the engineering work that will be required to accomplish the project. As these are likely to be significantly more costly than most of the other line items, will Canada explain how they are to be presented to ensure that Contractors are quoting realistically for these essential elements of the work?	Engineering costs should be incorporated into the individual SOW items, as applicable for each SOW Work item.
71	Amendment 005 Answer 2 makes it clear that Canada has developed an estimated cost for this modernization. Will Canada share this with bidders to allow them to make a determination of an appropriate level of effort to apply to their proposals? To explain this question further, we note that the ITB policy is required to be applied to all CCG procurements of \$100M or above. It appears highly likely that the work will exceed this threshold, and therefore the project is likely to be delayed, cancelled or rescaled if bids exceed this threshold.	No, this information will not be provided in a competitive solicitation
72	The engine fuel consumption evaluated through Annex H is specified to be at 100% power and 85% power. How is this to be interpreted? It is very unlikely that all engines proposed will have the same MCR as each other or as the existing engines.	The bidder is to use the published fuel consumption numbers for their proposed engine.

73	<p>For a Fixed Price contract the below expectations are unreasonable?</p> <p>"8.7.1.1 The Contractor must submit copies of all purchase orders for primary machinery and equipment required to complete the specified Work to the TA for review and comment.</p> <p>8.7.1.2. A list of Purchase Orders required for review will be made available by the TA.</p> <p>8.7.1.3. Provision of additional purchase orders must be accommodated when requested by the TA."</p> <p>Equipment will be specified during the engineering phase and cited in drawing BOMs. CCG approval during PDR & CDR is the venue to discuss how the selected equipment meets the technical requirements of the RFP. Reviewing individual purchase orders is inefficient and unnecessary.</p>	<p>The intent is for the TA to do a quick review of the specifications' related information. The Contractor is responsible for meeting the requirements of the SOW. If a discrepancy is noted, at that time, the Contractor could save restocking costs. The review will not involve TA approval.</p>
----	---	---

	<p>Refer to the response given in Amendment 7 questions 3 and 6.</p>
74	<p>In preparation for this project Canada has commissioned a number of studies related to work items; for example certain steel repairs, new deck hatch, galley layout, etc. The materials provided are very useful in developing costs for these items. However, we also note that in many of these cases there is still uncertainty in what the final scope of work will be, with provision for adjustment by 1379.</p> <p>Meanwhile, for the vast majority of work items, including the most complex items, no such studies are available.</p> <p>From Amendment 009, Answer 1 it is clear that Canada expects that bidders will “work with key suppliers, engineering and/or project management firms to develop their bid”. In order to provide realistic fixed firm prices, bidders and their engineering firms will need to develop at least the same level of detail as that in the existing studies. This must be done at their own cost, with limited access to the vessel, with no certainty as to the correctness of existing drawings and scans, and with no ability to account for even the level of uncertainty acknowledged by Canada under a majority of the existing studies.</p> <p>Obviously, an extremely high level of technical, cost and schedule risk is involved in this approach. Basing contractor selection purely on low bid and minimal mandatory requirements then transfers all this risk to Canada, as a successful bidder may not have the competency or resources to actually perform, and Canada is not currently requiring any substantive evidence of a bidder's ability to do so.</p> <p>Will Canada therefore consider modifying its bid evaluation approach to allow bidders to provide supplementary information that demonstrates their due diligence in scoping the work and in assembling the project team needed to undertake it?</p>
75	<p>The PDR/CDR deliverables tables in a number of areas include wording such as "to include, and not be limited to". Will Canada explain how contractors are intended to respond to this type of open-ended requirement? Whose opinion of what is needed will prevail?</p> <p>This is written as a performance specification. Bidders are responsible to determine the number of units required for each spec item. Bidders are to use their experience and are advised to include a risk factor if they have concerns that they missed a unit.</p>

76	The CDR deliverables for the Deck Crane include FAT test data approved by class,etc. This is required by Feb 2023 at the latest. Will Canada explain how the scheduling of this item is intended to be achieved?	<p>Not all equipment purchased is expected to be delivered during the Initial Work Period. Although most of the engineering work is expected to be completed by the Critical Design Review stage (refer to Annex V for PDR and CDR deliverables as well as article 7.33.1 in the RFPP), Canada may authorize additional time for some engineering work during the Vessel Work Period. The Final delivery of working drawings, for example, can occur after CDR and per the actual Vessel Work Period schedule. The procedure for the FAT may be approved by then but the testing will obviously not occur at that time.</p> <p>AMENDMENT 012 - ref 77 to 80</p> <p>77 Canada's response to Amendment 5, Question 1 (Question ref 8) is evasive, however, confirms that the ITB Policy, as published by ISED, is not being followed, link refers: https://www.ic.gc.ca/eic/site/086.nsf/eng/home Therefore we ask the following supplemental questions:</p> <ol style="list-style-type: none"> <li data-bbox="633 340 714 1938">Please provide bidders the project pre-tax dollar value estimated by Canada? <li data-bbox="714 340 796 1938">Where is scope and duration defined in the ITB Policy as a factor for determining eligibility? <li data-bbox="796 340 878 1938">Like all refit projects, the vast majority of the work will be performed in Canada. Why would this project be treated differently than, say the Frigate DWPs, which require ITBs? <li data-bbox="878 340 959 1938">Can Canada provide bidders with the assessment conducted by Canada and referred in their response to this question? <p>a. Canada will not release the estimated project value.</p> <p>b. Scope and duration are examples of a number of factors that ISED (Innovation, Science and Economic Development Canada) considers when determining the application of the ITB (Industrial and Technological Benefits) policy.</p> <p>c. Canada has discretion when applying the ITB policy. As per Question ref 8 response, an assessment was conducted and it was determined that the ITB policy would not apply.</p> <p>d. No, this information will not be released.</p>
78	Supplemental to Canada's response to Amendment 5, Question 2 (Q ref 9), as follows:	<ol style="list-style-type: none"> <li data-bbox="1090 340 1171 1938">Is this project also considered a Major Crown Project? <li data-bbox="1171 340 1238 1938">Will a Fairness Monitor be utilized? <p>a. The Terry Fox VLE requirement is not considered a Major Crown Project.</p> <p>b. A Fairness Monitor will not be utilized for this requirement (refer to question ref 40 response).</p>

Canada's response to Amendment 5, Question 3 (Q ref 10) is factually incorrect and bidders ask the following supplemental questions:

- a. Canada stated, "... ancillary contracts have been used in certain circumstances, however, they are not considered for competitive procurement processes under the NSS (National Shipbuilding Strategy)." The contracts resulting from NSS were as a result of a competitive processes and several ancillary contracts have been awarded to those shipyards. In addition ancillary or bridging contracts are common place in engineering or complex projects. Among several other reasons, they are used to mitigate the risk of proceeding with work before detailed design work or engineering is completed and accurate indicative costing can be established. What makes matters even higher risk in this tender is Canada requiring bidders to perform this detailed design work during the bid phase. Given the facts in the matter, will Canada reconsider its answer?

a. Ancillary contracts have been used in certain circumstances, however, they are not broadly used for competitive procurement processes. They will not be used for the Terry Fox VLE requirement.

- b. Also in its response to Amendment 5, Q3 (Q ref 10), Canada stated, "Industry Responses to the RFI posted in Oct 2020 confirmed the procurement approach, that being, to bundle the procurement of long lead items with the VLE work carried out at the shipyard." This is a misrepresentation of the RFI, the attached link refers:
https://buyandsell.gc.ca/cds/public/2020/10/05/9f352c50a72272bee4c997de501a706f/ABES.PROD.PW__MD.B042.E27915.EBSU000.PDF.
- In the RFI Canada described an acceptable procurement strategy as follows: "The intent would be to issue one Contract for the procurement of most of the equipment, materials, engineering and conduct of the VLE. Canada intends to provide performance based specifications for the main engines and other long lead items. The contract would result from a competitive procurement among capable shipyards in Eastern Canada. Due to the nature and complexity of the requirement, Canada will entertain traditional prime/subcontractor or joint ventures in the project. Canada intends to use a point rated bid evaluation process to evaluate the bids. The criteria for the award of contract would be determined by the lowest overall point evaluation of the bids. Overall point figures would be determined by a combination of mandatory, technical and financial bid evaluations." It is clear that Canada has abandoned its RFI strategy whereby capability would be determined first, followed by rating the best proposal from prequalified yards. What we have here is a clear "bait and switch". Will Canada reconsider this high risk, high cost to Industry procurement strategy for one that was advertised in its RFI?
- b. The procurement strategy for the Terry Fox VLE will not be changed to include point rated criteria. At the time of RFI posting, the intention was to use a point rated evaluation process. Upon further review, Canada implemented an evaluation strategy using the selected mandatory criteria summarized in Annex P that simplifies the evaluation process and provides bidders with clearly defined criteria that must be met to be considered responsive. The mandatory criteria set out in Annex P, coupled with the SOW contractual requirements, achieves the original intent.

	<p>c. Canada states that it, "appreciates the level of effort required to prepare bid packages." By not considering Industry's request to change this strategy, bidders do not believe that Canada at all appreciates the cost to bid this procurement. Bidders ask the following supplemental questions:</p> <ul style="list-style-type: none"> i. Will Canada compensate bidders for their costs should there be no successful bidder? ii. Bidders believe that Canada has insufficient funds to complete all work defined herein. Will Canada assure bidders it will not cancel this procurement due to insufficient funds? 	<p>c.i. Under no circumstances will Canada compensate bidders for their costs to prepare bids.</p> <p>c.ii. As per SACC 2003, article 11 (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/25#rights-of-canada), Canada reserves the right to cancel the bid solicitation at any time.</p>
80	<p>In regards to Annex A Part B Section 12.2 Bubbler Compressor Replacement section 2.2.1.2 and 2.2.1.4, the SOW states the Procurement of the new ABCS has not been finalized. When will this be completed and when will the requisite documentation be made available to bidders?</p>	<p>Annex A Part B Section 12.2 Bubbler Compressor Replacement has been revised to include an allowance for the installation. Please refer to item 2 of this amendment for a new version of 12.2.</p> <p>AMENDMENT 013 - ref 81 to 132</p>
81	<p>SOW Part B 12.1 - Items 3.4.2.5 & 3.4.2.6: Main Engine size is unclear and per requirement cannot be determined pre-contract award, can Canada please provide desired engine size in kW?</p> <p>Background Question 1:</p> <p>In item 3.4.2.5b it is mentioned that 50% of the vessel's full electrical load should be provided by the main engines via the shaft generators. The full electrical load is determined by the load analysis defined in Section 14.1.</p> <p>SOW 14.1 requires a load analysis engineering study, where the CCG is to be consulted regarding usage profiles as per 3.2.1.2e. This consultation is to happen post contract award, therefore it would be impossible to create the load analysis accurately pre-contract award.</p>	<p>For bidding purposes the engines are to be sized to provide rated propeller power plus an allowance of 1200 KW per side (port and starboard) to address the vessels electrical load, plus or minus 5% overall.</p> <p>Final engine selection must be based on the final electrical load analysis to be completed by the Contractor.</p>
82	<p>SOW Part B 12.1 - Item 3.4.2.10, in order to determine whether this requirement can be met the target engine size needs to be known, can Canada specify the engine size?</p>	<p>Refer to the response given in question ref #81.</p>

83	SOW Part B 13.1 - Item 1.1.1.2f & 3.3.1.1, sizing of power bridge system is to be based on results of the load analysis defined in spec 14.1. This load analysis calculation requires consultation from CCG regarding usage profiles. This makes it impossible to determine size prior to contract. Can Canada please provide the needed rated output of the system?	Refer to the response given in question ref #81.
84	SOW Part B 13.1 - Item 3.3.4.1a, can Canada explain the need for this requirement as the necessary pumps to support the engines and PTOs will not be running?	Could the author for clarification, to be more specific. It looks like the "AC bus" is being mis-interpreted, probably as the PTO generator output. In the SOW part B, section 13.1: "AC bus" refers to the respective buses of Main Switchboard (460V).
85	RFP 2.7.1 - Can Canada provide a schedule for when the vessel will be available to visit during Phase 1 (the Initial Work Period) of the contract, in support of surveys to complete the engineering works?	The vessel will be available to the greatest extent possible, in accordance with the vessels operational schedule. This schedule will be confirmed at a later date.
86	Need clarifications on Annex A Part B SOW item 15.12 (compressed air systems), 3.3.3. Air Pressure Reducing Stations: The written reducing stations values need to be clarified (there are discrepancies between the SOW and the drawings).	Refer to Item 2 of this Amendment for an update to Part B SCW item 15.12, 3.3.3.1.
87	Annex A Part B SOW Item 10.7 (High Pressure Local Application Water Mist Fire Fighting System (LAFFS)); are the Protected spaces at 3.2.1.2 still protected with Halon? Will this be an additional fire protection for these spaces? Will the automatic release of the LAFFS (3.2.1.13) affect the already fitted system (Halon)?	The affected spaces will continue to be protected by FM200. The LAFFS will be in addition to the existing FM200 systems. Automatic release of the LAFFS will not impact function of the FM200 systems.
88	Annex A Part B SOW Item 15.12, 4.3.1.4: During each compressor run trial, all monitored conditions must be recorded at 10- minute intervals. Data recorded must include: _____ . (missing the end of the sentence).	<ul style="list-style-type: none"> •Ambient air temperature. •Air pressure and temperature going in and out of each stage of compression. •Oil pressure
89	Part B SOW Item 16.3, 4.2.1.1 - Is it possible to indicate a weld length to be tested rather than a percentage?	<p>Refer to Item 3 of this Amendment for an update to Part B SCW item 15.12, 4.3.1.4.</p> <p>No. The Contractor must determine the length using the information provided in the TDP (the TDP is available to those who have signed the non-disclosure agreement in Annex S - Non-Disclosure Agreement of Request for Proposal, RFP/Annexe S - Accord de non-divulgation).</p>

90	In regards to Annex A Part B Section 14.2B Emergency Switchboard - The bidder cannot be expected to quote the emergency switch board when it is not known if this needs to be replaced or not, as the engineering study deciding this has not conducted yet. Would Canada consider changing the scope of this SOW to exclude the modification or replacement of the switchboard and for this to be handled by a 1379? This approach is what is being requested on SOW Item 17.12 Tow Pin Installation, where the purchase and installation will be done via 1379 after the completion of the feasibility study.	Canada will not be changing the scope for 14.2B. The Bidder must bid on refurbishing the existing switchboard. Any change in approach determined to be feasible post Contract award will be addressed at that time. Refer to Item 4 of this Amendment for an update to Part B SCW item 17.12, 1.1.1.2 (the 'Note', at the end of the section, is removed; no PWGSC 1379 will be applied).
91	Part B SOW Item 15.3 - Are the interior surfaces of the 12 tanks available?	No. The Contractor must determine tank internal surface areas from the information provided in the TDP.
92	Part B SOW Item 15.3 - 4.2.1.1 - Is it possible to indicate a weld length to be tested rather than a percentage?	No. The Contractor must determine the length using the information provided in the TDP.
93	Part B SOW Item 15.10 - Are the interior surfaces of the 23 tanks available?	No. The Contractor must determine tank internal surface areas from the information provided in the TDP.
94	Part B SOW Item 15.10., 4.2.1.1 - Is it possible to indicate a weld length to be tested rather than a percentage?	No. The Contractor must determine the length using the information provided in the TDP.
95	Part B SOW Item 13.1, 3.3; Part 1 question - In the absence of the result of the load studies to be produced at 14.1 which will dictate the power of the shaft alternators, can we consider proposing the equivalent powers to what is currently on board and adjusting the power and price once the studies have been carried out?	Refer to the response given in question ref #81.
96	Part B SOW Item 13.1, 3.3; Part 2 question - Can this be applied to other items in the quote where the engineering must be completed before the equipment is selected in order to close/secure our bids?	The Contractor is requested to clarify specifically to which items this can apply.
97	Part B SOW Item 12.1.3, 13.1.2 - What is the mixture of coolant, what is the product used and how much to pump/dispose of?	The central cooling medium is fresh water treated with Liquiddewt by Ashland Drew Marine. The volume of the fresh water system is 10 cubic meters.
98	Part B SOW Item 11.10 - Can the length of each valve to be replaced be specified? (space between flanges)	No, for bidding purposes, assume a space based on a valve standard, such as ASME B16.10. Detailed engineering shall be completed after award.

99	Part B SOW Item 11.19, 3.3.1.4 - Does Canada supply the 24 fittings in question? If so, can we see the details, if not can you specify what needs to be provided?	No, fittings will not be provided. Further information will not be provided.
100	Part B SOW Item 11.13 - Is it possible to have the surfaces of each of the elements to be painted in this item (Superstructures, decks, bulwarks, splices, rails, ladders, pipes and other structures on the exposed decks of the ship's superstructure, from the main deck to the top of the chimney and the railings of the wheelhouse to apply new coatings)?	No. The Contractor must determine surface areas from information provided in the TDP.
101	Part B SOW Item 12.1 - 3.3.1.3 (f) - The new PM package must not exceed the weight of the existing PM package. Can Canada provide a detailed breakdown for the weights of the existing PM package.	Main engines - 78,500 Kg each Gearboxes - 33,000 Kg each
102	Part B SOW Item 12.1 - 3.3.1.3 (f) - Further to the above, is there an overall weight limit/target for the modernization? It would not appear logical to constrain a single vital aspect while not controlling the overall issue.	Refer to SOW Part A GR 8.0.
103	SOW Part A GR 02 - What is intended by the following scope statement? 3.2.1.2. The Contractor must address all interference items as may be required to facilitate completion of the specified Work.	The Contractor must assess each Work item and determine any interference materials in the area surrounding the object being worked on. The Contractor must include (in their costs) the temporary removal of these items, the replacement of these items at the completion of the Work, and the verification of performance of the replaced items on completion of the Work.
104	SOW Part A GR 01, 5.7.2 - The vessel is required to meet the Canada Shipping act (GR1, section 5.3) including the Arctic Shipping Safety and Pollution Prevention Regulations. Section 5.7.2 lists IMO Instruments for guidance, but states those references in sections 5.1-5.5 are mandatory. Can Canada confirm that the Polar Code is mandatory.	The Arctic Shipping and Pollution Prevention Regulations (ASPPR) and Polar Code do not apply to government vessels when they are being used only in government non-commercial services, however new components supplied and installed as part of this contract should meet the requirements of the ASPPR and the Polar Code in general although a Polar Class is not prescribed.

105	<p>SOW PART A GR 01, 8.2 - In order to define the work sufficiently to support a FP (fixed price) proposal the as-fitted system drawings are needed. However the RFP indicates: "The Contractor must note that not all Guidance Drawings supplied are "As-Fitted"</p> <p>Drawings. The Contractor must physically verify all affected items and all dimensions necessary for the Work."</p> <p>It's unreasonable to expect each bidder to define the as-fitted systems in order to respond to the proposal. It is requested that Canada certify the supplied drawings to be an accurate definition of as-fitted systems.</p>	<p>The Contractor must establish the bid based on the information provided in the TDP. Any demonstrated deviation between the documentation provided and the final as-fitted condition, at the time of execution, will be addressed using PWGSC 1379.</p>
106	<p>SOW PART A GR 01, 8.4 - In order to provide a FP (fixed price) proposal in response to the RFP, equipment may need to be defined and costed during the proposal stage. Can Canada confirm that the review stage, as defined in section 8.4, will not result in the change of equipment.</p>	<p>No change will be required, provided the proposed equipment meets all requirements of the SOW,</p>
107	<p>SOW PART A GR 01, 8.3-8.4 - The RFP requires that working drawings be submitted to the TA for review and comment. This will cummulative add significant leadtime and cost to the project. Additionally the opportunity for scope creep through TA comments on individual working drawings will mean that the final cost and schedule for the project is indeterminate. In order to create a fair and competitive RFP would Canada consider removing scope items of this nature that make it impossible for contractors to bid.</p>	<p>The TA will review the drawings to advise if any descrepancies are noted between the drawings and the specified requirements. Canada will ensure it applies the required resources so that this review will not unreasonably delay the Contractor's design effort. The Contractor can conduct parallel work while this review is taking place.</p>
108	<p>What is the required Polar Class for the ship? This will have a fundamental effect on the cost and weight of the gearbox and other items.</p>	<p>The Polar Class of the ship is not defined for the purposes of the SOW. The replacement of each component must be based on original equipment data, the vessels original ice classification and specifications provided within the SOW.</p>
109	<p>SOW Part A - The low temperature range for the vessel is set at -35C. Is this PST, MDLT or other?</p>	<p>The low temperature requirement for the vessel should be considered a Polar Service Temperature (PST) of -35C.</p>

		Refer to the response given in question ref #81.
110	Part B SOW item 13.1, 1.1.1.2.f - The requirement for the new power bridge system note: "Rated output of each power bridge system to be based on results of load study, defined in SOW item 14.1, Electrical System Analysis. In practical terms, due to space limitation, the power bridge system should have the largest capacity possible." This requirement is internally contradictory. How will Canada decide whether "as large as possible" has been achieved? What are requirements for access, etc?	The specified performance has to be met, no matter which type of alternator is proposed. Proposed alternators have to fit in the available space and have to meet all the criteria (a to j) defined in SCW Part B, SOW item 13.1, 3.3.2.2. Attention to be paid to: the capability to provide rated power in all speeds of propulsion combinator mode, and the capability to autonomously supply AC bus with required active (kW) and reactive power (kV/ARs).
111	Part B SOW item 13.1, 3.3.2.1 - Further to the above, various types of shaft alternator are permissible. These types typically have different power densities (etc). Selection for low price will almost inevitably lead to lower performance. Does CCG accept that the selection at the proposal stage will be a binding limitation for performance?	Yes. It remains the Contractor's responsibility to confirm and ensure that whichever cooling medium is selected, it is viable in consideration of all other existing and new vessel structures and systems, as applicable. ie: the selection must work within the overall VLE scope and must not invoke any further work scope or costs subsequent to selection.
112	Part B, SOW item 13.1, 3.3.2.2 - The selection of air or water cooling for alternators will also need to be made at bid stage. Does CCG accept that the selection at the proposal stage will be a binding limitation for performance?	Certification by the manufacturer stating that the equipment (or equipment parts for custom equipment) is in current production and that spare parts, technical support and service support will be available for at least 15 years is required. Note that this certification is specifically requested to be submitted at bid closure for propulsion machinery associated equipment (PME as indicated in RFP Annex P item M19b) and for auxiliary machinery equipment (as indicated in RFP Annex P item M19f).
113	SOW Part A, 9.1.1.5 - The Contractor is required to ensure that selected equipment is "Currently in unlimited production..." How is this to be interpreted for custom items such as the gearbox, crane, etc?	Refer to TDP update dated Dec 20, 2021 for additional reference material (the TDP and updates are available to those who have signed the non-disclosure agreement in Annex S - Non-Disclosure Agreement of Request for Proposal, RFP/Annexe S - Accord de non-divulgation).
114	Part B SOW item 11.11, section 3 - The application of SPS deck replacement described in SOW does not give any information on the thicknesses or grades of plate that will be (we assume) yard supply. Can this be clarified?	Refer to TDP update dated Dec 20, 2021 for additional reference material Main deck UT assessment report is also included in TDP update (Refer to "ETS UT Survey Reports" provided in Section 11, under Documents folder).
115	Part B SOW item 11.11, 3.3.1.2 -In the specifications for SPS deck replacement it is noted that wastage of the existing deck can be up to 70% before any repair will be needed. Can this be confirmed, as it seems extreme.	

116 Part B SOW item 12.1 - Inspection of the vessel and the drawings makes it clear that the design does not accommodate easy removal of the engine, gearbow, etc. Has Canada undertaken any feasibility studies into preferred options, or is this entirely the contractor's responsibility?	No. The Contractor is responsible for determining machinery removal routes and the associated requirements.
117 Specific example taken from Part B SOW item 15.2, 3.2.1.4 - In many areas of the SOW wording is used such as "The original pipe hanging, support and securing hardware must be retained and re-used to facilitate installation of the new piping." Can Canada explain how this will be applied when there will be extensive work in way; e.g. associated with engine removal? Will all such items need to be retained for re-installation?	Original pipe hangers, support and securing hardware must be used to the greatest extent possible. In instances where a piping system modification is specified, or where an adjoining structure is removed or replaced, new pipe hanging hardware may be installed. The Contractor must remain responsible for maintaining and/or reworking all new piping runs in a manner acceptable to the TA.
118 Example taken from Part B, SOW item 15.2 - Element of the specifications for the bilge and ballast system refurbishment appear internally contradictory, e.g. 3.4.2.1 and 3.4.2.2 first require retention of existing and then specify replacement. Will Canada clarify the intent?	The existing bilge and ballast system remote operated valve functionality is provided by a mimic and control panel in the MCR. This mimic and control panel is to be removed and not replaced. The functionality provided by the original mimic and control panel (to be removed and not replaced) is to be provided by the new CCAMS defined in SOW item 19.2, refer to section 3.15.27.
119 SOW Part A GR-02, 1.3 - The SOW requires that all equipment above decks must be protected by an enclosure. Can Canada clarify what types of equipment this requirement applies to?	All weather sensitive control equipment must be suitably protected from inclement weather and facilitate equipment operation in inclement weather conditions for the duration of the equipment's lifecycle.
120 Part B, SOW item 12.3, 4.2.27 - If propulsion engines can be offered with certain capabilities, these are required to be costed separately (e.g. variable inlet valve timing). Can Canada clarify the intention and confirm whether the inclusion of options will be part of the evaluated price?	No, the cost of any options offered will not be included in evaluated price.

121	<p>SOW Part A, GR 01 - How is the below requirement measured?</p> <p>1.1.1.4 "The vessel's overall performance capabilities must be retained and not compromised, in any way, as a result of this VLE"</p>	<p>Prior to the arrival of the vessel at the start of the Vessel Work Period i.e. during the Initial Work Period, open water sea trials are specified to be completed, for this purpose, refer to GR 7.0 (SOW Part A).</p> <p>Original ice performance data is documented in the reference material offered in TDP update dated Dec 20, 2021.</p> <p>The vessel performance requirements will need to be defined, baselined through vessel trials prior to the VLE in order to create a measurable requirement upon completion of the VLE. Will Canada provide a definition of the "overall performance capabilities" which would be verified by the shipyard prior to the VLE?</p>	
122	<p>SOW Part A, GR 01, 1.2.1.3 - The below requirement is unreasonable. The TSR can only be responsible for those working on the CCGS Terry Fox contract whom are employed by, or working on the premises of the prime contractor.</p> <p>"Protection of all personnel associated with the Contract from abuse, or injury of any sort"</p> <p>The successful bidder should be expected to meet applicable Occupational Health & Safety requirements and blanket RFP requirements such as this should be removed or modified.</p>	<p>The intent of this clause is to be applied to personnel working on the CCGS Terry Fox contract whom are employed by, or working on the premises of the prime contractor.</p>	
123	<p>SOW Part A, GR 01 - What is the purpose of these drawings?</p> <p>"2.1.1.21. "Guidance Drawings"</p> <p>Guidance drawings are provided strictly for guidance purposes only. The Contractor must physically verify all Contract requirements and must then develop working drawings for approval."</p> <p>Is CCGG expecting to receive guidance drawings?</p>	<p>Guidance Drawings are provided by the CCG as a baseline reference, and to be developed as Working Drawings after the technical solution is determined, per the SOW. CCG does not expect to receive Guidance Drawings from the Contractor.</p>	Yes.
124	<p>SOW Part A, GR 01, 5.12.2.1 - Are SAE standards acceptable for plated fasteners?</p> <p>"ISO 2081- Metallic Coatings- Electroplated Coatings of Zinc on Iron or Steel"</p>		

<p>125 SOW Part A, GR 01, 7.2.1.6 - This is provincial jurisdiction, what role does the TA play in this area? is there any other expectation aside from simply receiving an internal safety document.</p> <p>"7.2.1.6. The Contractor must provide, 5 days before the Kickoff Meeting lead paint Work procedures in place that comply with provincial regulations and have been approved by the Contractor's Workplace Occupational Health and Safety Committee."</p>	<p>Refer to SOW Part A GR 01 section 6.1.1.4 and 6.1.1.5. The Contractor's HSSE must meet or exceed the FSSS and must be fully accessible to the TA. Employees of Canada must work under requirements of the Canada Labour Code. Employees of the Canadian Coast Guard must work under the FSSM. The TA must have access to the Contractor's HSSE system and all related documentation in order to ensure that Government employees are adequately protected by the Contractor's HSSE system.</p>	<p>Refer to the response to question ref #125.</p>
<p>126 SOW Part A, 7.2.1.8 - Why is the TA interfering with the operation and management of Occupational Health and Safety in the work place when this is provincial jurisdiction?</p>	<p>"7.2.1.8. The Contractor must maintain records that demonstrate that his Quality Assurance department has the capacity to monitor on-site Work progress, is capable of performing air quality monitoring on an ongoing basis as required by the Occupational Health and Safety Regulations and is able to assess the affected areas post abatement process. Current training records must be maintained and must be made available for inspections."</p>	<p>The requirement will not change.</p>
<p>127 SOW Part A, 8.4.1.6 - The use of plotted drawings ended sometime in the '1990's. Drawing approvals should be paperless and electronic using the shipyard selected PDM tool. Will Canada accept an electronic workflow and endeavor to conduct its working/shop drawing review paperless through an electronic, configuration controlled workflow that would provide metrics on drawing approval performance and efficiency?</p>	<p>"8.4.1.6. Drawings submitted for review, unless otherwise specified, must be in the form of plotted originals. Manufacturer's printed data sheets for standard items are acceptable providing pertinent characteristics are identified and relate to specified items"</p>	

128 Part B, SOW item 12.1, 3.3.1.13/3.3.1.14 - Amendment 7 Answer 15 (question ref 28) - Canada has noted that section 3.3.1.14 allows for alternatives. Can Canada provide examples of alternative arduous services they deem applicable to icebreaking?	Examples of alternative arduous services deemed comparable to icebreaking include offshore anchor handling and supply vessels, ferries, and dredgers. These arduous services are also noted in RFP Annex P (rev 2), item M19h; required as part of the bid submission mandatory criteria.
129 Part B SOW Item 16.2 - Installation of a second domestic water heater is required. Is this for capacity or redundancy? As little guidance is offered on installation or performance requirements it is not clear how this is to be plumbed into the overall system.	<p>This is intended for, both, capacity and redundancy. It is to be plumbed in parallel with the existing hot water heater. It is to be of similar capacity as the existing HW heater.</p> <p>Further detail for the new hot water heater has been provided in TDP update dated Dec 20, 2021.</p>
130 Part B SOW item 16.3, 3.4.2.13 - The Domestic Water Tanks requirements note that "The water supply required for this SOW item must not be added to the vessel's domestic water daily use. If the Contractor uses the same domestic water supply and same meter as that used for supply for general vessel's usage, the volume required for this SOW item must be deducted from the vessel's domestic water consumption meter when calculating overall usage for services billing." Can Canada clarify the intent of this requirement?	<p>Cost of water to be used for flushing, disinfecting and filling of the domestic water tanks is to be included in bid cost for this SOW item and not included in the daily consumption costs accounted for in SOW Part A GR 10, section 3.3.</p>
131 Part B section 19 - Will the Canadian Coast Guard (via PWGSC) procure navigation equipment and hardware directly, or will this equipment be offered through the winning shipyard? We are happy to quote either way.	<p>Each SOW item under section 19 (or under any other section) specifies whether the equipment is GSM, i.e. navigation equipment and hardware will be supplied by the Coast Guard.</p> <p>The refit location is not yet known.</p> <p>Is there a preferred refit location? Sperry Canada has offices in St John's and Halifax, we can serve any CCG Location in Eastern Canada. Service partners Alliance Nav have offices in Quebec and Ontario.</p>

132	Part B, SOW item 17.1 FORTY (40) TONNE DECK CRANE REPLACEMENT	<p>The maximum personnel lifting requirement must accommodate 1500 lbs at the crane maximum boom radius.</p> <p>Refer to Item 5 of this Amendment for an update to Part B SCW item 17.1, 3.4.1.6.</p> <p>3.4.1.6. The crane being offered must be capable of performing the following:</p> <ul style="list-style-type: none"> a) Recovering a crew barge from either the port or starboard side of the vessel. b) Recovering a fifteen (15) tonne environmental response barge from the port side of the vessel. c) Capable of performing a man lift whilst the vessel is at sea or in harbour. <p>Could it please be clearly stated what the maximum personnel lifting requirement be for the 40 tonne deck crane (i.e. clarify item c, above).</p>																														
133	Need clarifications on Annex A Part B SOW item 16.10 (Incinerator replacement), 3.3.3. Sludge / Settling Tanks: The required number of sludge tank is one or two (as these tanks come as one unit only)?	<p>AMENDMENT 014 - ref 133 to 140</p> <p>Refer to Item 2 of this Amendment for an update to Part B SCW item 16.10, 3.3.3.1.</p>																														
134	The milestone payment schedule (RFP Annex H, appendix 2) is very back end loaded and focuses entirely on the propulsion system, while other high value items (e.g. crane) are ignored. This poses considerable cash flow risk to bidders. Will Canada allow bidders to propose an alternative set of milestones and associated schedule?	<p>Canada is not prepared to alter the milestones, at this time. There are milestones associated with equipment other than the propulsion systems (listed below), where Canada pays the Contractor upon this equipment receipt and inspection, this equipment includes the 40 tonne crane.</p>																														
		<table border="1" data-bbox="936 340 1390 1241"> <tr> <td>15</td><td>Part B Section 11.29 - Galley Equipment Package</td></tr> <tr> <td>16</td><td>Part B Section 13.1 - Shaft alternators & frequency stabilization equipment</td></tr> <tr> <td>17</td><td>Part B Section 14.2a - Main switchboard upgrade equipment</td></tr> <tr> <td>18</td><td>Part B Section 14.2b - Emergency switchboard upgrade equipment</td></tr> <tr> <td>19</td><td>Part B Section 14.3 - Motor control centers upgrade equipment</td></tr> <tr> <td>20</td><td>Part B Section 16.4 - Sewage treatment plant equipment</td></tr> <tr> <td>21</td><td>Part B Section 16.10 - Incinerator replacement & upgrade equipment</td></tr> <tr> <td>22</td><td>Part B Section 17.1 - 40 tonne crane equipment</td></tr> <tr> <td>23</td><td>Part B Section 17.2 - Deck machinery mechanical equipment</td></tr> <tr> <td>24</td><td>Part B Section 17.3 - Deck machinery electrical equipment</td></tr> <tr> <td>25</td><td>Part B Section 17.5 - Mooring winch equipment</td></tr> <tr> <td>26</td><td>Part B Section 17.6 - Stores crane equipment</td></tr> <tr> <td>27</td><td>Part B Section 18.1 - Internal communication system upgrade equipment</td></tr> <tr> <td>28</td><td>Part B Section 19.1 - Propulsion control system upgrade equipment</td></tr> <tr> <td>29</td><td>Part B Section 19.2 - Alarm & monitoring system replacement equipment</td></tr> </table>	15	Part B Section 11.29 - Galley Equipment Package	16	Part B Section 13.1 - Shaft alternators & frequency stabilization equipment	17	Part B Section 14.2a - Main switchboard upgrade equipment	18	Part B Section 14.2b - Emergency switchboard upgrade equipment	19	Part B Section 14.3 - Motor control centers upgrade equipment	20	Part B Section 16.4 - Sewage treatment plant equipment	21	Part B Section 16.10 - Incinerator replacement & upgrade equipment	22	Part B Section 17.1 - 40 tonne crane equipment	23	Part B Section 17.2 - Deck machinery mechanical equipment	24	Part B Section 17.3 - Deck machinery electrical equipment	25	Part B Section 17.5 - Mooring winch equipment	26	Part B Section 17.6 - Stores crane equipment	27	Part B Section 18.1 - Internal communication system upgrade equipment	28	Part B Section 19.1 - Propulsion control system upgrade equipment	29	Part B Section 19.2 - Alarm & monitoring system replacement equipment
15	Part B Section 11.29 - Galley Equipment Package																															
16	Part B Section 13.1 - Shaft alternators & frequency stabilization equipment																															
17	Part B Section 14.2a - Main switchboard upgrade equipment																															
18	Part B Section 14.2b - Emergency switchboard upgrade equipment																															
19	Part B Section 14.3 - Motor control centers upgrade equipment																															
20	Part B Section 16.4 - Sewage treatment plant equipment																															
21	Part B Section 16.10 - Incinerator replacement & upgrade equipment																															
22	Part B Section 17.1 - 40 tonne crane equipment																															
23	Part B Section 17.2 - Deck machinery mechanical equipment																															
24	Part B Section 17.3 - Deck machinery electrical equipment																															
25	Part B Section 17.5 - Mooring winch equipment																															
26	Part B Section 17.6 - Stores crane equipment																															
27	Part B Section 18.1 - Internal communication system upgrade equipment																															
28	Part B Section 19.1 - Propulsion control system upgrade equipment																															
29	Part B Section 19.2 - Alarm & monitoring system replacement equipment																															

	<p>Following on from Q&A reference #64. The RFP is designated as part of NSS. NSS is covered by the national security exemption. Canada has previously used this exemption to block applications to the CITT. Will Canada confirm that they will not invoke the exemption for this procurement?</p>	Canada will not be invoking an NSE (National Security Exception, <i>Exception relative à la sécurité nationale</i>) for this requirement.
135	<p>Part B SOW item 16.1, 2.6.1.1 and 3.5.5 - For the renewed freshwater system, the Contractor is required to install five (5) GSM backflow preventers, however it is noted that only four (4) will be provided. Can Canada clarify which is correct? Also, as compatibility issues may arise why are these relatively minor items being provided as GSM?</p>	All required backflow preventers must be supplied by the Contractor. For amendments to the SOW, refer to Item 3 of this amendment for an update to Part B, SOW item 16.1.
136	<p>Will Canada be considering a BWTS for the Terry Fox ?</p>	No, we won't be installing a new ballast water treatment unit.
137	<p>RFP, section 7.2, Standard Clauses and Conditions : Q : On the buyandsell website, there are many standard clauses and conditions that are not applicable for this contract, example: price for milk and butter. Also, many of them are "obsolete" and/or not updated. So, to have a clear view of all applicable clauses and conditions for this major project, we would ask to Canada to produce one complete Contract including all clauses and conditions extracted from buyandsell website and others clauses and all conditions from all specific sections produced for this project.</p>	<p>For section 7.2 (and for all of section 7), the only clauses that apply from the SACC site, are those that are either referenced or written out in full (in section 7). In section 7.2, for example, the referenced clauses (links) include, only:</p> <p>-2030 (2020-05-28) General Conditions - Higher Complexity - Goods (section 22 is amended as noted in 7.2.1); (link: https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/3/2030/19); -1029 (2018-12-06) Ship Repairs; and (link: https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/4/1029/5) -4006 (2010-08-16) Contractor to Own Intellectual Property Rights in Foreground Information (link: https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/4/4006/3)</p>

139	<p>Lowest Price vs Life Cycle Cost: The current format of a lowest price bid evaluation will encourage bidders to source the cheapest equipment available. While some consideration has been given to vessel life cycle costs with respect to spare sparts, fluid and fuel consumption, there is no criteria addressing the reputation of OEM's (original equipment manufacturer) or equipment within an OEM's portfolio of products.</p> <p>a) Will Canada consider a weighted criterion for major equipment items based on OEM's record of performance?</p> <p>b) Would Canada consider specifying OEMs for major equipment?</p>	<p>a) Refer to question ref 79b response. Furthermore, in RFP Annex P, Mandatory Criteria has been considered and included for (i) manufacturers of major equipment, as well as for (ii) major equipment identified in all of M19 (a to h) as Propulsion Machinery Equipment (PME defined in M19b) and as Auxillary Machinery (AM defined in 19g). PME Equipment includes: -Propulsion Machinery Engines (PME in Part B SOW item 12.1); -Propulsion Machinery Clutches (PME in Part B SOW item12.1); -Propulsion Machinery Shaft Alternators (Part B SOW item13.1); -Switchboard equipment (Part B SOW item14.2); -Motor Control Centres (Part B SOW item14.3); -Propulsion Machinery Controls System Upgrade (Part B SOW item19.1), and -Alarm and Monitoring System (Part B SOW item19.2).</p> <p>AM Equipment includes: -associated AM components (Part B SOW item12.1) including PME related AM pumps, compressors, prefabricated tanks, receivers, filters, valves, regulators, relief valves, and general instrumentation and the Start and aux air compressors replacement (Part B SOW item15.11).</p> <p>b) Canada has already established a 'no-substitute' list of components without allowing for equivalent products, on an exceptional basis as itemized in Annex U of the RFP. No further additions to the list can be made at this time.</p>
140	<p>Capacity: No consideration or weighting of a contractor's capacity to execute the work has been factored into this solicitation. Should bidders not have to provide a reasonable level of assurance that they have the facilities, manpower, etc. to execute the work within the timeframe specified by Canada? Specifically, in reference to backlog at bidders' respective facilities?</p> <p>Would Canada consider a weighted bid evaluation whereby bidders provide a work schedule that clearly demonstrates a facility's capacity to execute the project within the time frame specified by Canada?</p>	<p>Refer to question ref 79b response. Furthermore, to demonstrate a facility's capacity to execute the project within the time frame specified, Canada has requested, in Annex P, mandatory requirement M6, where the Bidder must provide a Preliminary Work Schedule that must include 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>Also, M7 requests anticipated Sub-contractor engagement, including a list of all subcontractors and additional details.</p> <p>Refer to M6 and M7 of Annex P (amended to rev 2 in Amendment 011) to see the entire content.</p>

141 Part B, SOW item 16.19 - Design criteria for the new wheelhouse air handling unit provide different temperatures than those required for most other systems; furthermore the capacities of the unit are specified. How are the temperatures to be interpreted, and what type of acceptance criteria are to be followed?	<p>Refer to Item 5 of this Amendment for an update to Part B SOW item 16.19, 3.6.2.1.</p>
142 Engineering schedule	<p>Given the anticipated scope and complexity of the project, we anticipate a significant amount of custom detailed drawings and manufacturing information will have to be generated. We do not feel the eight-month period from contract award to vessel arrival is sufficient to account for the engineering effort required. Furthermore, as many scopes of work items are conceptual and largely undefined, the amount of custom drawings and manufacturer information required is a variable difficult to account for and creates significant risk for both the cost and schedule of the engineering work.</p> <p>Will Canada extend the design/procurement period from eight months to, at minimum, eighteen months?</p>

143	Procurement of Long Lead Items	<p>As mentioned above, we feel the design/procurement period of eight months from contract award to vessel arrival is insufficient. This is further exacerbated by the fact that design and acceptance of long lead items needs to take place before a purchase order is issued to OEM's. It is highly unlikely the prime contractor will be able to develop a detailed design for major equipment, have said design accepted by Canada, order machinery and have it manufactured and install it in the vessel during the proposed contract period. Major items such as main engines may have to be built, a process which could take a year or more, especially given the pressure supply chain issues caused by COVID-19.</p> <p>a) What happens if a design is submitted and not accepted by Canada and delivery of major equipment is delayed either as a result of an extended design period or, OEM production delays? Will the contractor be held responsible for these delays? How will the contractor account for additional engineering costs as a result of re-work to a design not accepted by Canada?</p> <p>b) If Canada will not amend the solicitation to a two phased contract approach, we recommend at a minimum, a period of at least eight months design and acceptance followed by an eight to ten-month procurement period before the vessel arrives.</p>	<p>a) The Contractor is obligated to provide equipment that satisfies the requirements in the SOW. The Procedure for Unscheduled Work process (RFP Annex F using form PWGSC 1379), will be utilized to negotiate reengineering Work that can be attributed to Canada with acceptable substantiation. Delays will be addressed per 2030 11 Excusable Delay.</p> <p>b) Refer to the response to question ref 142 response.</p>		<p>These valves have not been deleted and remain in place. They must be replaced with new valves, per the SOW.</p> <p>These sections have been identified on the specified drawing in an update to the TDP (TDP update 22.01.06; section 15, Drawings).</p> <p>For the same SOW item (15.1), it is mentioned at 3.1.1.2 that sections to be replaced have been indicated on drawing 71-01-02. These sections are not identified on the specified drawing.</p>
-----	--------------------------------	--	--	--	---

		The Bidders must select a crane that meets the requirements of the SOW.
146	SOW Part B SOW item 17.1 - The new deck crane appears to represent a capability increase from the existing crane and a greater capability than other cranes in service with the CCG fleet. As this will be an expensive item with considerable ship impacts, will CCG consider installing the same crane recently selected form other CCG vessels which will provide lower cost and greater fleet commonality?	
147	SOW Part B SOW item 17.1, 3.6.1.5 - The documentation requirements for the deck crane specify "Three (3) complete sets in English and three (3) complete set in French (if available) of the instruction, operation, maintenance, parts lists, and spare parts catalogs/manuals.. Will Canada confirm that French language documentation is not required?	French manuals are required. Refer to Item 6 of this Amendment for an update to Part B SOW item 17.1, 3.6.1.5.
148	SOW Part B SOW item 17.1, 5.3 (5.3.1.1) - The spares requirements for the deck crane include "a) Sufficient spares for two (2) preventative maintenance routines and any other critical spares which are recommended by the OEM to be carried on board. b) Spare parts suitable for two (2) years of maintenance routines and any other critical spares which should be stocked." Are these to be taken as cumulative, or is the more extensive of the two alternatives required?	a) and b) are cumulative requirements.
149	SOW Part B SOW item 17.2, 3.2.1.7 - The Contractor is required to assess whether the tow winch tow wire is to be removed as part of the proposal. How is the Contractor supposed to make this determination without an opportunity for inspection? Will CCG unreel some or all of this as part of a second ship visit? Will Canada change this requirement to allow for removal, stowage and reinstallation to be considered as a 1379 item?	The Contractor must determine if the specified maintenance of the winch can be completed with the wire in place on the drum. If it cannot (and the wire must be removed to allow completion of the specified maintenance of the winch), then the Contractor must address the requirements of section 3.2.1 of SOW item 17.2 accordingly. The Contractor is not required to inspect the wire.
150	SOW Part B SOW item 17.2, 3.4.2 (3.4.2.1) - The Contractor is required to conduct a 200 tonne bollard pull test of the refurbished winch; however the vessel performance data (SOW Part B Section 13) suggests that it cannot apply 200 tonnes. Will Canada clarify this requirement?	The Contractor must conduct a bollard test to demonstrate the maximum capability of the winch, without exceeding 200 tonnes

151	SOW Part B SOW item 17.2, 3.5 - The scope of work required for refurbishment of the anchor handling winch may exceed the replacement cost of the winch. Can the Contractor propose this as an alternative?	No, the Contractor cannot propose an alternative.
152	Part B, SOW item 15.2, 5.5.1.2 - "The Contractor must provide proof of Class inspection and acceptance of all components and function of the new bilge and ballast systems." This SOW cannot be fulfilled without an exception from the Rules being granted because the existing ballast system does not include a ballast water treatment unit and there is no SOW for adding it.	Class acceptance of the waiving of the requirement for a BWTS (Ballast Water Treatment System) will be arranged by CCG. The Contractor must provide proof of Class inspection and acceptance of all other aspects of the bilge and ballast systems.
153	SOW Part B, SOW item 17.5, 17.7, etc - , The forward deck (in particular) mooring arrangements are to be extensively reworked, but no sketch or other information is offered to ensure that Bidders' proposals will meet CCG operational requirements. Can bidders therefore assume that any arrangement assumed in their proposal will be acceptable? If not, can bidders assume that any rework required to obtain CCG approval will be work arising?	Reference document 17.5-1 is available in TDP Update 21.12.20; this resource ensures that Bidders' proposals will meet CCG operational requirements.
154	SOW Part B, SOW item 19.5 - The MCR consoles are to be refurbished rather than new consoles being provided, despite the fact that most items will be entirely new. This approach will be difficult to implement and will lead to considerable performance and schedule risk as it precludes any ability to test most aspects by FAT rather in-situ. It also raises many human engineering challenges, especially as layouts must be approved by CCG without any objective criteria being established for this. Will Canada consider changing this requirement to allow for provision of new consoles?	Yes. Any new console must align with all of the requirements of the SOW, as well as retention of all existing console hardware and functionality not dealt with in SOW.
155	SOW Part B, SOW item 12.1, 3.4.2 - The new PM system is required to include a new combinator control option. Is this to be available in both open water and ice modes? If so, what limiting engine speeds will be accepted for ice operation?	Combinator mode availability is defined in SOW Part A section GR 12.

156 SOW Part B, SOW item 12.9 - The Contractor is to supply and install a complete set of new propeller blades to the original design. This will preclude any improvements in efficiency and noise reduction available from utilizing state-of-the-art design, and will constrain the design of other aspects of the propulsion machinery. As the "lowest compliant bid" approach will prevent offering better alternatives, will Canada consider undertaking a study of alternatives during the Initial Work Period?	No, Canada will not undertake such a study.
157 Question ref #72 Amendment 11 - Follow on from Question ref #72. To clarify our question, please note that similar engines do not generally have identical power ratings, and bidders would normally be expected to offer what they consider to be the best engineering solution. However, the bid evaluation approach will penalize good practice. The existing MEs are rated at 4275kW each. Assume that a candidate replacement is available at 4200kW, and another supplier's engine at 4500kW. Both have similar specific fuel consumption. However, the 4500kW engine will appear to have roughly 7% worse fuel economy using the evaluation approach. In reality, it may actually have better performance, as running at 100% load is worse for fuel economy and for maintenance. We therefore request that Canada revisit the requirement to reflect a specified delivered power requirement that avoids this problem.	The Contractor must select the engine it wishes to include in its proposal and use the specific fuel consumption for that engine.
158 Question ref #76 Amendment 11 - Follow on from question ref #76. We thank Canada for the clarification, but note that the requirement has not actually been changed. Will Canada please amend the requirements to ensure that there is no dispute as to intent following contract award.	Yes. Refer to Item 4 of this Amendment for an update to the RFP.
159 SOW Part B SOW item 17.1, 3.4.1.1 - The new deck crane is to "...as a minimum, be in current production and in marine service and be well supported in Canada." Can Canada confirm which characteristics are to be covered by this requirement, as the requirements call for a customized unit rather than a standard production model.	The bidder must demonstrate that spare parts and service will be available for the specified period. A verifiable, class approved reference for a similar crane on a named vessel will satisfy this requirement.

160 Question ref #67 Amendment 11 - Follow on from Q&A reference #67. To clarify our concern, we fully understand that OEMs will provide current year parts costs. However, the RFP requires that we quote parts and labour prices for 15 years into the future, which is unrealistic. We therefore repeat our request that this requirement be revisited.	All engine maintenance and operating costs (for both labour and materials), should be based on the selected engine maker's data, and priced in today's dollars.
161 Performance of the vessel: No engineering or modelling has been done to assess the vessel operational characteristics with the new equipment installed. As the contractor is responsible for procuring and installing major equipment, we feel an untenable amount of risk is placed on the prime contractor with respect to performance and acceptance of the vessel. The preferred course of action would be to model the vessel with all new equipment and systems, in order to accurately predict the operational characteristics of the vessel before any work is done and provide certainty to Canada that the vessel will operate as desired. This modeling should be done to compare different equipment options before equipment is selected.	<p>The Contractor is obligated to provide equipment that satisfies the requirements in the SOW. The Procedure for Unscheduled Work process (RFP Annex F using form PWGSC 1379), will be utilized to negotiate reengineering Work that can be attributed to Canada with acceptable substantiation.</p> <p>The Contractor will be responsible for implementing each item in the SOW and ensuring the performance of any equipment installed as well as the integration of that equipment with any other new equipment or retained equipment. The operational characteristics are not anticipated to change.</p>
Who will be responsible if the operational characteristic of the vessel is deemed unsatisfactory during the acceptance phase?	AMENDMENT 016 - ref 162 to 177
162 SOW Part B SOW item 17.1, 1.1.1.2 - The RFP notes that if the new crane requires additional deck support structure, that this will be dealt with as work arising. Will the work arising also cover additional engineering required for the redesign?	Completion of the initial Finite element analysis (FEA), specified in 3.1.2 must be included in the bid cost. Engineering required for the definition of additional structure and steel work will be addressed using PWGSC 1379 process.
163 SOW Part B SOW item 17.1 - The new deck crane is likely to require new stowed support arrangements. Are these at the discretion of the Contractor to define? If not, what location and other constraints are applicable?	The Contractor must assess and modify the existing crane boom storage crutch to suit the new crane. The Contractor must also assess any potential interference between the stowed crane and towing operations and adjust the crane stowage arrangement to avoid any interferences.

164	Part B, SOW item 12.1, 3.5.10.1 - "The Contractor must assess the existing ME exhaust uptake system against the needs of the new PM and define all modifications to the exhaust uptake system required to meet the needs of the new PM." Please advise of noise requirements for replacement engines and engine exhaust systems (dB).	<p>The noise level requirements of the exhaust system must meet the Regulations and ABS Rules and codes stipulated in the SOW, GR 01 (Part A), section 5.0. This includes the noise limits in the engine room and the accommodation space. As a minimum, the levels must not exceed the previously measured noise levels, per survey 287478 CCGS Terry Fox Noise Monitoring Report, NL, March 5 2021. The machinery space maximum noise level limit is 110 dB.</p>
165	Followup on QA ref #75 Amendment 11 - We do not understand this response, as a list of items is not a performance specification. Contractors cannot infer what other documents Canada may decide it requires, or on what basis. We therefore request that this requirement is reworded.	<p>The edits to Annex V were completed and referenced in the last amendment (015). Annex V SOW items indicating "to include, and not be limited to" wording were reworded. Refer to Item 4 of Amendment 015, including the updated Annex V (Rev 1).</p>
166	SOW Part B, SOW item 12.2 - Amendment 12 updates the bubbler compressor requirements but reduces the amount of useful information provided. The bubblers are a very large electrical power draw (1200HP for current system, new system requirements unknown). As such, they will impact on many elements of the electrical system modifications. It is impossible to verify compliance with many other requirements without better definition of the bubbler system. Will Canada provide this information to bidders during the RFP phase?	<p>The solicitation for new ABCS will be posted during the week of Jan 25, and will include the ABCS SOW. All VLE bidders may view it on Buy and Sell; if any questions remain outstanding, the bidders may then submit their questions.</p>
167	SOW Part B, SOW item 12.2, 12.3 - No performance requirements are specified for the bubbler system and it is therefore unclear what the testing and acceptance requirements are supposed to be, or what functionality the bubbler is intended to provide. Will Canada provide additional clarification on modes of operation, balancing, working pressures and other information?	<p>The Contractor must demonstrate that the new ABCS, when installed, will meet the manufacturer's specified performance specifications.</p>
168	SOW Part B, SOW item 17.1, 1.1 - Requirements for crane operation refer to Beaufort sea state, which does not correspond to normal definitions of sea state. (a) will Canada please confirm significant wave height requirements? (b) will Canada provide a seakeeping analysis that allow bidders to assess acceleration and motion additions to static load requirements?	<p>a) Refer to the link, https://www.rmts.org/metmatters/beaufort-scale. b) No, the Contractor is responsible for determining the design parameters of the new crane.</p>

169 SOW Part B, SOW item 15.4, 3.4.1.2 - New bilge/ballast and fire pumps must "be of the same make, model, capacity, and arrangement as the original pumps. The QVP series is not listed in the manufacturer's marketing material (only QV and QVK series detailed). Has Canada confirmed that these pumps are still in production? Why can the sea water connection not be modified to suit a new pump when the pipework is all being replaced anyway	The manufacturer, in 2020, had confirmed that these pumps can be supplied and will remain supported. New pumps must be supported for 15 years.
170 Sow Part B, SOW item 16.1, 3.5.5.1 - "The Contractor must install Government supplied backflow preventers in each of the five main domestic water distribution mains at convenient locations after the main distribution manifold" Would these backflow preventers serve more use in the lines to machinery header tanks and sewage plant to prevent backflow into the domestic system rather than preventing clean water backflowing into the machinery systems?	Bidders must bid on installing backflow preventers per the SOW and per the response to Question ref 136.
171 SOW Part B, 16.3 - Are any additional winterisation measures required for the conversion of water ballast tank to fresh water tank? The tank extends above the waterline and will now have a liquid with higher freezing point	No.
172 The response to this question seems to contradict the answer to question 27, where Canada stated that "(section GR01, 5.2 to 5.5) are mandatory" Can Canada breakdown the list of reference standards, indicating which ones are mandatory in their entirety, which ones are partially applicable including which specific sections are applicable, and which ones are not applicable.	The previous answers to Question ref 104 and Question ref 27, regarding the application of regulations and standards, are correct. The Contractor may request clarification if there is a question related to a particular Regulation, Rule, Code or Standard.

<p>173 TDP - Many of the answers provided in Amendment 13 refer to the TDP update dated 20 December, 2021. We were not informed of this update until 11 Jan, 2022. Will Canada (a) confirm that all bidders were given knowledge of this update at the same time (b) ensure that future substantive changes to the RFP package are communicated through the formal amendment process and (c) ensure that there is a more timely dissemination of essential information, given the extreme time pressure for RFP response?</p>	<p>a) Yes, according to our records, all eligible TDP recipients, including the author of this question, were given access to updates on December 23 (for TDP update named TDP Update 21.12.20). <u>TDP Update 22.01.06</u> and <u>TDP Update 22.01.14</u> were also e-mailed out on January 11 and January 14, respectively. b) Moving forward, TDP updates, accessible to eligible recipients, will only be announced through a solicitation amendment on Buy and Sell. c) Thanks for your feedback.</p>
<p>174 TDP update (6th Jan 2022) has a drawing index that suggests there are .dwg files available. None were found within this package or any other TDP. Can Canada provide these files please?</p>	<p>General Arrangement Drawings have been made available in .dwg format in the TDP Update 22.01.14. The remainder of the drawings will be made available in .dwg format after contract award.</p>
<p>175 In response to answer ref 54 (regarding SOW Part B SOW item 13.1 - 3.3.3.12) , how does Canada want to run the pumps and perform pre-charging using 24V?</p>	<p>SOW Part B SOW item 13.1 - Item 3.3.3.12, defines requirements for the Control power of 24VDC. It does not envision to run the pumps and perform the pre-charge from the 24 VDC circuit.</p>
<p>176 In response to clarification request for answer ref 84 (regarding SOW Part B 13.1 - 3.3.4.1a): The auxiliaries of the PTO-Converter and driving Main Engine (cooling water) are not working without any electrical energy provided, it is not possible to start-up the ship mains ("AC bus") with the shaft alternator alone. The normal procedure for running up a ship mains from the blackout is the way via the emergency genset as it is air cooled / mainly self-contained. Alternatively large UPS, made for 460 V 3AC can play the role of the Emergency Genset.</p>	<p>The capability to connect the power bridge to a dead bus is required. The converter connects to the PTO bus, and that PTO bus can be de-energized when its bus coupler to the ship service bus is open.</p> <p>The source of auxiliary power, pre-charge circuit and cooling pumps, needed to start the power bridge should be defined by Contractor. The possibilities are: 1- the PTO generator (if it is capable to operate autonomously), 2 - an added feeder (spare breaker) from the ship service bus.</p>
<p>177 SOW Part B SOW item 13.1 - 3.3.3.3, can another front end towards the shaft generator be considered if deemed to provide the same performance towards the grid?</p>	<p>The converter must meet the requirement of SOW Part B SOW item 13.1 - Item 1.1.1.2.b. The AFE refers to a converter capable of maintaining / regulating the DC link voltage at the required level in all operating modes.</p>
<p>178 Part B SOW Item 16 : - Document PL 70-11-02 grey water system of 31 pages, page 22 is illegible;</p>	<p>AMENDMENT 017 - ref 178 to 184 Page 22 contains items listed for Galley drains. A clearer copy is not available, but the items required for this page are referenced in an updated 3D Virtual Scan (link - https://mpembed.com/show/?m=K7qtxRJn1y&mpu=71&mpv=CCGTFOX;password=TerryFoxVLE), under Section Directory 'Bubble Compartment' and 'FWD AUX Machinery Compartment Upper Landing'. New tags are labelled under Area Spec Index as '16.6 Sewage & Grey Water Piping System'.</p>

<p>179 RFP section 6.1 Financial Capability : For the presentation of financial reports, Point 6.1. For the purpose of disclosing this confidential information to competent persons only. Do we have the possibility of making a videoconference meeting to present his information ? This would make it possible not to give away his documents.</p>	<p>The information to be provided requires a detailed assessment by a cost analyst; a videoconference meeting is not sufficient enough to carry out the assessment. The requested information would be sent, from the bidder, directly to the cost analyst.</p>
<p>180 RFP article of agreement 7.11 Insurance Requirements: - Can we have the insurable value of the Terry Fox ship ? - Annex D, point D4, Can you clarify what is included in the \$ 15,000,000 property listing ?</p>	<p>No, the insurance value of the vessel will not be disclosed. Point D4 (All Property Insurance) is requested as the Contractor is going to order high value equipment, spare parts, etc., and the goods will remain in the Contractor's care, custody and control after they are delivered.</p>
<p>181 RFP article of agreement 7.13 Contract Financial Security: For the financial guarantee, can you confirm that PWGSC will recognize that the extras will be subject to the increased costs of the financial guarantee ?</p>	<p>No, PWGSC does not recognize that there will be an increase. After award, Canada will make Milestone and monthly progress payments on completed Work; the remaining Work to be invoiced for the duration of the contract will not be larger than the initial value and risk secured at award, even as extras get added.</p>
<p>182 In regards to request for proposal (RFP) section 2.7 Work Period, a bidder cannot make this certification in good faith without knowing what is a reasonable amount of unscheduled work. This is becoming increasingly difficult as Canada amends the SOW (amendment 5 refers) to refit selected areas through per unit pricing which is essential, refit by 1379. Given this reality can Canada define precisely how many hours is "reasonable".</p>	<p>No, Canada cannot precisely define the number of hours that constitutes a reasonable amount of unscheduled work.</p>
<p>183 TDP, 1-07-80-2 Load Analysis - We note that the only electrical load analysis provided dates back to before delivery of the vessel and many line items do not correspond to data provided elsewhere in the requirements. Can Canada provide a more recent version of the load analysis, as this is a critical design document for sizing new equipment and systems?</p>	<p>Refer to item 2 of this amendment.</p>

184	<p>SOW Item 11.4 – HULL PROTECTION SYSTEM SERVICE:</p> <ul style="list-style-type: none"> * Para: 3.3.1.1: “The Contractor must isolate, disconnect, and remove all existing electrical cables from the existing Cathelco control panel to the four reference cells and the ten anodes.” * Para: 3.5.1.6: “The Contractor must install all new electrical cabling from the new, and the original hull protection system control panels to their respective reference cells and anodes in accordance with Jastram instructions” * And Amendment 5: “The four forward anodes and two forward reference cells must be connected to the new forward thyristor control cabinet.” * Just got in touch with the OEM representative (Charles Brown) from Jastram. He told us that not all of the electrical cables were to be replaced (his recommendation). * Could you confirm that ALL the cables are to be replaced by new ones for all the aft and forward anodes and reference cells? 	<p>Yes, all electrical cables must be replaced as specified in 3.3.1.1 and 3.5.1.6 of SOW Item 11.4.</p> <p>AMENDMENT 018 - ref 185 to 187</p> <p>The ABCS solicitation was published on Jan 31, 2022. https://buyandsell.gc.ca/procurement-data/tender-notice/PW-OLZ-002-7757</p>
185	Ref Q&A 166, When will the ABCS (air bubbler compressor system) solicitation be published?	

186 ANNEX P of the RFP, Mandatory Technical Criteria, M18, Procurement Team, point b. <i>'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:</i> <i>b. have handled the procurement of a component valued at a minimum of 10 million dollars during their experience.'</i>	<p>After more consideration and further review, Canada has corrected and clarified the intent, and added an equivalent criteria to M18, b.</p> <p>Refer to Item 2 of this amendment for an update to Annex P (rev 3).</p> <p>NOTE: Amendment 010 (Annex P , rev 1) updated requirements M19h (per item 2) and M10 (per Q14 in the amendment or Qref 58 in the log)). Amendment 011 (Annex P , rev 2) updated requirements M6 (per Q ref 61 and item 2).</p> <p>This requirement suggests that the Procurement Specialist must have issued a purchase order for a single component valued at a minimum of 10M\$. This is a very high value for a single component, it is very unlikely to happen even on large projects. A requirement such as «procurement of components valued at a minimum of 10M\$ for a single project» would be more in line with what is happening in the Canadian marine industry. In this perspective, the demonstration could not be done with the submittal of a single purchase order.</p> <p>Alternatively, reducing the 10M\$ to 1M\$ or 2M\$ would open the door to serious candidates.</p>
187 The current Contract Financial Security requirement states that the bidder must provide a price for: a) a performance bond (form PWGSC-TPSGC 505) and a labour and material payment bond (form PWGSC-TPSGC 506), each in the amount of 20 percent of the Contract Price; OR b) a security deposit as defined below in the amount of ten percent (10%) of the Contract Price. The cost of this security will be part of the evaluated price. This will be an excessively high \$ number which adds no value to the ship, the refit nor does it protect against non-performance. We again request PSPC to reconsider their procurement strategy and prequalify shipyards first, then evaluate them on best value, a combination of price and technical merit, without inclusion of the cost of financial security.	<p>This request, regarding the method of evaluation, has been previously answered. Responses to identical or similar type questions can be found at Question refs 16, 79b, 139, and 140.</p> <p>In regards to the requirement for financial security:</p> <ol style="list-style-type: none"> a) Financial security protects Canada from Contractor default; should a Contractor default, any contract financial security shall be redeemed and applied to compensate Canada to the limit permitted in the contract; 2) It is equally applicable for all Bidders to include in the evaluated cost; 3) If awarded, Canada will pay for the entire cost of financial security, as it appeared in the bid submission.

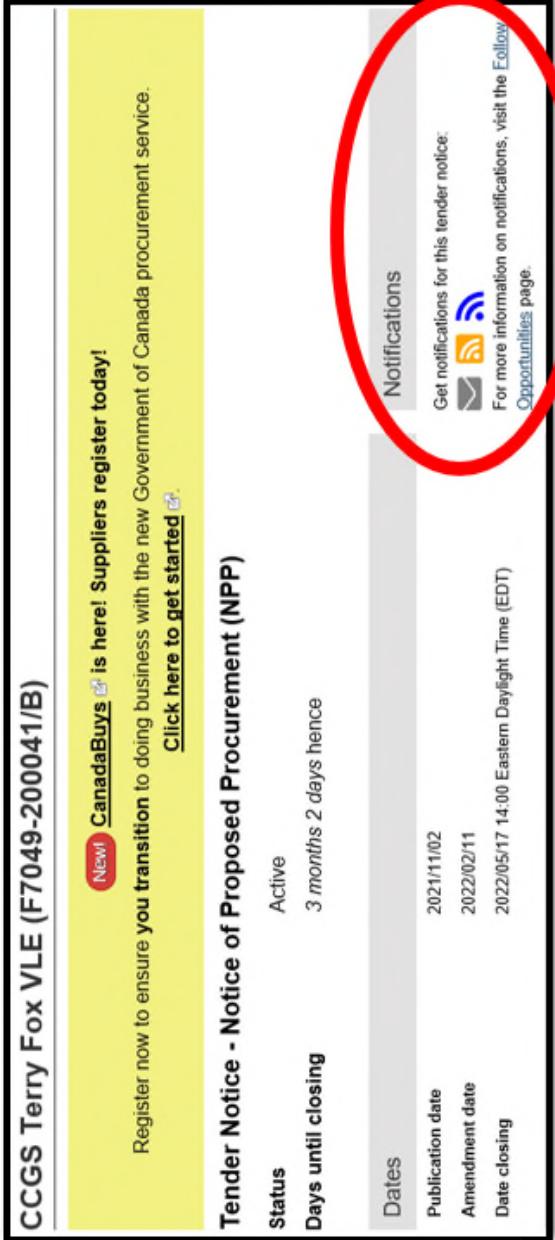
	<p>The requirement defined in item 3.4.3.7 will remain unchanged.</p>
188	SOW item 12.1 - Regarding item 3.4.3.7, a governor with mechanical backup is no longer seen as beneficial, as they can cause stability problems and eventually break the engine coupling. Considering this, is the use of a Woodward PG-EG without backup allowed?
189	SOW item 12.1 - Regarding item 3.4.3.14, engine control is hard wired; we believe that it is required to be hardwired for safety reasons (formal confirmation pending). Either way, whether required by Class or not, it is deemed safer to have engine control signals hardwired. Can Canada please allow engine control to be hard wired?
190	<p>Can a Bidder accumulate credits or transfer credits related to the Indigenous Participation Component (IPC) from other IPC programs, much like what is done with the Industrial and Technological Benefits (ITB) program?</p> <p>For example, the Louis Saint Laurent does not have an ITB but it does have Canadian work on it that we are allowed to credit to our overall ITB budget; that credit can be used towards other programs that do require an ITB.</p> <p>Can the same be done for IPCs, or does the IPC need to be directly for the Terry Fox VLE?</p>
191	<p>SOW Part A, GR 7.0:</p> <p>The answer to question ref 121 under Amendment 013 notes that pre-refit sea trials are to be conducted i.a.w the SNAME Sea Trials Bulletin under GR 7.0, SOW Part A. This bulletin covers many trials, many of which require instrumentation that is not currently installed on the ship. Is the contractor required to provide and install this equipment, and if so how and when is this to be done and costed?</p>
192	<p>Various, Q&A ref 81:</p> <p>The request for proposal (RFP) refers in various places to "rated propeller power" and the answer to question ref 81 notes that this is to be used for sizing the propulsion plant. However, we cannot find a definition for this value in the RFP or supporting documentation. Will Canada clarify the value expected to be used?</p>
	<p>Engine Control functions may be hardwired. The onboard engine control and monitoring system must be capable of bus communication with the central control, alarm and monitoring system (CCAMS).</p> <p>No, it has to be directly for the Terry Fox VLE contract.</p> <p>The Contractor is to bid per the SOW. The Contractor is to arrange for a vessel performance assessment to be conducted by those experienced in doing so and who are able to provide the required instrumentation. CCG will make available the time required for the installation and removal of such instrumentation, prior to and after the trials.</p> <p>Refer to drawing # A111582 CPP Propeller, offered in TDP Update 21.12.20, Section 12, Documents, Folder 12.1-1.</p> <p>The existing propeller designed power is to be considered 8088 Kw per shaft.</p>

<p>193 SOW Part B, 11.18: The SOW for the new forward mast states "c) fabrication of new mast as per guidance drawing supplied" Is the guidance drawing referring to 2046-4-18-S-045 Rev2 Forward Mast Nav. Light Platforms Detail Drawing (Allswater)? Can Canada confirm the intent to have an identical mast as per the original, with new platforms. Is there any reason the platforms can't be added to the existing mast?</p>	<p>Refer to SOW, section 3.1.1.1 which states "The Contractor must replace the vessel's forward mast with a new assembly as per guidance drawing #20046-418-S-045 Rev 2." The Contractor must bid accordingly, on the basis of the referenced guidance drawing. Refer to SOW section 1.1.1.1 which states "The intent of this specification is to replace the vessel's forward mast with a new mast of new structure and arrangement."</p>
<p>194 SOW Part B, 12.6: Jastram Model S2-723-35 steering gear system has been identified as the pre-selected replacement package. It is the contractor's responsibility to ensure that the proposed system will meet or exceed the functionality and performance of the current system, and will meet the requirements of both ABS and TCMSS. Are any required changes to the pre-selected steering gear package to be identified at the bid stage and included in a new technical proposal/quotation?</p>	<p>The Bidder must assume that the proposal, as presented, is sufficient and that no changes are required.</p>
<p>195 SOW Part A, GR 07: It is required that the vessel performance after the VLE is, in all respects, equal to or better than that prior to the VLE. This is to be demonstrated by comparison of pre-arrival sea trials and delivery trials. However, this poses a number of challenges and we request further definition of Canada's expectations. The pre-arrival trials will be conducted with degraded hull coatings, etc. While this will make some performance attributes easier to meet, others will become more difficult - for example crash stop and other manoeuvres. How are the trials results to be interpreted to account for these factors?</p>	<p>The pre-arrival trials will be conducted immediately after ice breaking operations; the hull can be assumed to be clean. The hull is coated with Inerta and can be considered to be in good condition.</p>

196	<p>SOW Part A, GR 08: Can the documents presented in GR 08, 1.2.1.1 be provided? MSI Doc May 2019 (weights and centres.), MSI Doc Jan 2012 (Towage Stability), Dwg # TBD (Hydrostatic Curves), Dwg # TBD (Draft Marks), Dwg # TBD (Trim and Stability Book) and Dwg # TBD (3D modelling manual).</p>	<p>To be included in TDP Update 22.02.11.</p>
197	<p>Part B, SOW item 11.14: The ETS (Eastern Technical Services Company) report only identifies the points where the steel is under the acceptable thickness decrease, it does not delimit the areas of steel to be replaced. The CCG should sit down with the company that took the thickness tests and the classification society of the ship in order to agree and produce a plan/drawing precisely delimiting the plate inserts and structural elements to be replaced considering a percentage of additional decrease since the tests were taken and knowing that it does not want to return to these spaces in the coming years to replace steel again. It is always the responsibility of the Ship Owner to agree with his Classification Society what he must replace on his ship. This exercise cannot be done by the shipyards as part of a call for tenders evaluated on the price.</p>	<p>AMENDMENT 020 - ref 197 to 210 Refer to Item 3 of this amendment.</p>

<p>198 Part B, SOW item 12.1: For item 3.4.2.26d, individual cylinder pressure sensors are common in dual fuel or gas engines. When operating with gas with otto-principle, cylinder heads need to be equipped with special electrical sensors to adjust individually cylinder specific sensitive burning process. This is needed to load the cylinders equally, to avoid knocking and misfiring which may result explosions in exhaust gas duct. So, there are strong arguments with gas engine. However, in diesel engines the burning process is different and no engine specific adjustments are needed. There are no other strong arguments either which would add value for the investment. That is why cylinder heads aren't commonly equipped with continuous cylinder pressure monitoring, as it adds costs and brings little value. If we were to implement continuous cylinder pressure monitoring on our diesel engines it would take specific R&D, engineering and testing to implement this on the cylinder head. Also, it would result in Canada owning an engine with specially made cylinder heads not used elsewhere. And not likely to be used elsewhere either. Medium speed diesel engines do have indicator valves on top of the cylinder head where peak pressures can be measured by a handheld device. Would it be possible to eliminate this requirement and allow peak pressures to be measured by handheld devices?</p>	<p>Provision of individual cylinder pressure monitoring will be considered optional. Bidders must include the cost of provision of such a system, as specified, as an option, if available. The cost will not be included in the overall bid price.</p> <p>Refer to Item 4 of this amendment for edits to the SOW.</p>
	<p>199 Bubbler RFP and Terry Fox VLE Part B, SOW Item 12.2</p> <p>The system is to be delivered to St. John's, NL, during the expected refit period. This will require any bidder not based in St. John's to pay for unnecessary shipping costs and for the risk of multiple long distance deliveries. Will Canada revise this requirement to avoid penalization of certain bidders?</p>

200	<p>Bubbler RFP and Terry Fox VLE Part B, SOW Item 12.2: The bubbler RFP includes a requirement for the supplier to develop an installation design package. However, the VLE bidder is required to take responsibility for this. How will any conflicts be resolved?</p>	<p>The VLE Contractor must install the new Air Bubbler Compressor System (ABCS) hardware in accordance with specific installation requirements defined by the supplier of the new ABCS, as would be expected for the installation of any new equipment or hardware.</p> <p>More general installation requirements such as an access and closing plan, lifting requirements, electric cable replacement and other general requirements unique to the vessel must be developed by the VLE Contractor, taking into account the equipment and hardware specific requirements of the ABCS supplier. The VLE Contractor is responsible for the correct installation of the new ABCS. This is covered under the installation allowance in the Terry Fox SOW (SOW item 12.2 in Part B, refer to question ref 80).</p> <p>An access and closing plan has been added to ANNEX V PDR-CDR (REV 2), per section 3.2.1.5 of SOW item 12.2 (refer to item 9 of this amendment). Note that REV 1 was released per question ref 158 (and Item 4 of Amendment 015).</p>
201	<p>Bubbler RFP and Terry Fox VLE Part B, SOW Item 12.2: The bubbler scope of supply includes various replacement panels for consoles that are to be removed in the VLE. How are bidders to ensure that these panels will be compatible with the new consoles?</p>	<p>The Bidder must assume that any new panels will not conflict with console planning. Any conflicts will be addressed after award using the PWGSC 1379 process.</p>
202	<p>Bubbler RFP and Terry Fox VLE Part B, SOW Item 12.2: The bubbler RFP does not include any space, weight or power information, other than a not to exceed power. Are VLE bidders required to assume that this maximum power will be used? What other information can be utilized to assure that the delivered equipment will not conflict with other aspects of the VLE, given that bubbler selection will presumably not be confirmed until after VLE bids are finalized?</p>	<p>The Bidder must assume that the new bubbler machinery will:</p> <ul style="list-style-type: none"> a) Require 485KW electrical feed to each new bubbler compressor VFD. b) Fit within same footprint as existing equipment. c) Will not present any change in weight. d) Will not conflict with other aspects of the VLE. <p>Any changes to the above confirmed after contract award will be dealt with via the PWGSC 1379 process.</p> <p>Refer to Item 5 of this amendment for edits to the SOW.</p>

203	<p>Bubbler RFP and Terry Fox VLE Part B, SOW Item 12.2: Is it now the responsibility of VLE bidders to track all Q&A on the Bubbler RFP to stay informed of changes to the scope? Will Canada inform VLE bidders of amendments to the bubbler system RFP in a timely manner?</p>	<p>Bidders can request notifications for any tender notice on Buyandsell.gc.ca (see image below for guidance). Note that any questions regarding the Bubbler Compressor RFP can be directed to that file's Contracting Authority. Refer to the response to question ref 185 for the link.</p>  <p>CCGS Terry Fox VLE (F7049-200041/B)</p> <p>New! CanadaBuys is here! Suppliers register today!</p> <p>Register now to ensure you transition to doing business with the new Government of Canada procurement service.</p> <p>Click here to get started.</p> <p>Tender Notice - Notice of Proposed Procurement (NPP)</p> <table border="1"> <thead> <tr> <th>Status</th> <td>Active</td> </tr> <tr> <th>Days until closing</th> <td>3 months 2 days hence</td> </tr> </thead> <tbody> <tr> <td colspan="2">Dates</td> </tr> <tr> <td>Publication date</td> <td>2021/11/02</td> </tr> <tr> <td>Amendment date</td> <td>2022/02/11</td> </tr> <tr> <td>Date closing</td> <td>2022/05/17 14:00 Eastern Daylight Time (EDT)</td> </tr> </tbody> </table> <p>Notifications</p> <p>Get notifications for this tender notice.</p> <p>For more information on notifications, visit the Follow Opportunities page.</p>	Status	Active	Days until closing	3 months 2 days hence	Dates		Publication date	2021/11/02	Amendment date	2022/02/11	Date closing	2022/05/17 14:00 Eastern Daylight Time (EDT)	<p>Such approaches are determined at the discretion of the CCG.</p> <p>In general, why is the bubbler compressor being treated as GFE in this way, while other larger and more complex items are part of the VLE package? This approach adds considerable risk due to the types of interfacing issue noted above.</p> <p>Such approaches are determined at the discretion of the CCG.</p> <p>In general, why is the bubbler compressor being treated as GFE in this way, while other larger and more complex items are part of the VLE package? This approach adds considerable risk due to the types of interfacing issue noted above.</p> <p>This request, regarding the method of evaluation, has been previously answered. Responses to identical or similar type questions can be found at Question refs 16, 79b, 139, and 140.</p> <p>We note that the bubbler RFP uses a rated technical bid evaluation approach, which is sensible given the complexity of the technical issues involved. Will Canada therefore reconsider the evaluation approach to the VLE as a whole, which is vastly more complex and higher risk?</p>
Status	Active														
Days until closing	3 months 2 days hence														
Dates															
Publication date	2021/11/02														
Amendment date	2022/02/11														
Date closing	2022/05/17 14:00 Eastern Daylight Time (EDT)														

		The lifting weight of the barge is 19000 lbs. The drawing of the barge will be available in TDP Update 22.02.18.
206	SOW Part B, SOW Item 17.1 - 40 T crane - 3.4.1.6 (a) requires the crane to recover a crew barge from either port or stbd side of the vessel. Can the weight of the crew barge be provided please?	These items will not exceed the crane lift and extension requirements specified elsewhere in the SOW.
207	SOW Part B, SOW Item 17.1 - 40 T crane - 3.4.1.6 (f) requires the crane to position deck loads over the majority of the working area of the deck. Can the weight of the deck loads be provided please? Can the term "majority of the working area" be clarified please?	These items will not exceed the crane lift and extension requirements specified elsewhere in the SOW.
208	SOW Part B, SOW Item 17.1 - 40 T crane - 3.4.1.6 (g) requires the crane to discharge stores, containers, palletized goods and equipment from vessel to shore. Can the weight of these items be provided please?	#2 Double Bottom Tanks between frames 60 and 94 carry diesel fuel oil. The notation on drawing 07-07-04 is incorrect.
209	TDP Section 11 - In Drawing 07-07-04/05, Double Bottom Fr 60 to 79 P&S, Frame 2, the double bottom tanks between Frs. 60 and 95 are identified as holding water ballast. Drawing T131027, Tank Capacity Plan, identifies the same double bottom tanks as Fuel Oil tanks. Please confirm the latter is correct.	No. A GHS model is not available. The Contractor must complete stability analysis in GHS and build a GHS Model, as required, to suit. GHS Stability analysis must be Class reviewed and approved prior to submission to CCG. CCG will supply a partial 3D model in Rhino, in TDP Update 22.02.18, for further development by the Contractor and for use in conjunction with the GHS model produced by the Contractor.
210	SOW Part A, GR 08: Can the latest GHS (General HydroStatics) model be provided please?	Refer to Item 7 of this amendment for edits to the SOW.
		AMENDMENT 021 - ref 211 to 217
211	Mandatory Requirements, Annex P: The answer to question ref 140 in Amendment 014 notes the requirement to provide a Preliminary Work Schedule, as extended under Amendment 011. However, this does not address the issue of realism as posed in the original question. Will Canada assess the feasibility of the proposed schedule and labour loading based on metrics of yard and subcontractor capacity or merely use "ticks in boxes" to note that every bullet point is addressed? If the latter, then what if any penalties will be applied to a Contractor who submits an unreasonable proposal?	As set out in Part 2 of the RFP Instructions to Bidder, section 2.7 Work Period , by submitting a bid, the Bidder certifies that they have sufficient materiel and human resources allocated or available, and that the Work Period comprised is adequate to, both, complete the known work and absorb a reasonable amount of unscheduled work. In support of the Bidder certifying that it has the resources required to meet the contractual delivery date, Canada requires this information i.e. the schedule labour loading, to ascertain how the Bidder plans to resource this Work given the level of effort required for this VLE. Remedies under the contract will be exercised, as required, in the event the Contractor defaults on any contractual obligations.

212	<p>RFP Annex S: Will Canada explain why an NDA is being required for all data sharing under this project? What policy is driving and justifying this restriction, given that the vessel is 40 years old and uses no sensitive technologies? The need to establish NDAs with a very large number of potential equipment suppliers is a large and increasing problem and risk to the delivery of proposals within the allotted time.</p>	<p>There is no policy driving this decision. For the CCGS Terry Fox, the NDA is legally required to safeguard selected third party content in the TDP.</p>
213	<p>RFP Annex S: Further to the above, if Canada continues to require these NDAs, can further clarification be provided on how far-reaching this requirement is? For example:</p> <ul style="list-style-type: none"> a) Are independent contractors (contract staff) required to execute NDAs, or are they considered to be covered by the organization to which they are providing services? b) Are companies required to sign NDAs before receiving RFQs based on TDP information, or only when elements of the TDP itself are to be forwarded? c) Are vendors specified in the RFP required to execute NDAs, or has this already been arranged by Canada? d) If companies need to flow through information to their own suppliers and subcontractors, are they also required to put NDAs in place? e) What penalties will be applied to bidders and suppliers who fail to follow these procedures? 	<p>a) Anyone to whom the drawings or documents (contents of the TDP) are disclosed to, must sign a non-disclosure agreement containing the same terms (i.e. the entity's authorized representative must sign on that entity's behalf).</p> <p>b) If a document or a drawing needs to be shared, then yes (per a)), an NDA is required, but the NDA can be signed at the time the information is being shared.</p> <p>c) See response in a). No, the Bidder will be responsible for getting the NDAs signed by its sub-contractors.</p> <p>d) Yes, see response in a). and General Conditions 2030- 06 Subcontractors subsection 3.). No, the Bidder will be responsible for getting the NDAs signed by its sub-contractors.</p> <p>e) Information provided to the bidders is licensed to Canada and, as such, Canada can only share this information under the condition that it will be shared under a Non-Disclosure agreement. If a bidder or supplier fails to sign the NDA or fails to act in accordance with the NDA, Canada or the owner of the information, could commence legal action against the bidder. Moreover, Canada may consider that by failing to do so, you have not complied with all the requirement of the bid solicitation and are non-responsive, hence your bid will be rejected.</p>
214	<p>RFP Annex S: Further to both the above, as all bidders will be contacting many of the same vendors, OEMs, etc., will Canada establish and provide bidders with a copy of a registry of all companies who have already signed NDAs for this project, to avoid multiple requests?</p>	<p>No, Canada will not provide such a registry.</p>

215	<p>Part B, SOW item 12.1: Regarding local gauges item 3.4.3.12. Modern engine control systems have all requested information available in local display unit as a standard, where values are easy to find and comfortable to read.</p> <p>Electrical sensors fulfil the high safety and reliability standards expected from a modern engine, and no human is requested to read mechanical gauges for these purposes. Up-to-date sensors and electrical measurement devices are very reliable, more than traditional mechanical gauges.</p> <p>Maintenance, including changing electrical sensors is an easy and fast task. Having double measurements devices would mean high investment cost and increased operational maintenance cost without added value. It will also again mean that Canada will end up with a unique one-of-a-kind configuration. Considering the statements before, can Canada please explain why mechanical gauges are viewed critical?</p>	<p>The provision of local mechanical gages will be considered optional. Bidders must include the cost of provision for such an arrangement, as specified, as an option, if available. The cost will not be included in the overall bid price.</p> <p>If local gages are not offered, all parameters for which mechanical gages have been specified, must be included in the engine electronic monitoring package. Additionally, redundancy in electronic device monitoring must be provided for the following points:</p> <ul style="list-style-type: none"> a) Lube Oil Pressure to main bearings b) Cooling Water Pressure c) Cooling Water Temperature to Engine d) Cooling Water Temperature out of Engine e) Charge Air Pressure f) Fuel Oil Pressure g) Exhaust Gas Temperature Before and After Turbocharger <p>Refer to Item 3 of this amendment for edits to the SOW.</p> <p>No, Canada is not requesting an oil upgrade to an Environmentally Acceptable Lubricant. This requirement is to be deleted and reference made to clause 3.2.1.2. The systems are to be refilled with new oil. "New oil" is to be interpreted as being of the same type as is now in use as per "CCGS Terry Fox Lube 2021" application list offered in TDP, VLE SOW Documents/GR Documents, or an equivalent product as may be defined in GR 02, Section 7.</p> <p>Refer to Item 4 of this amendment for edits to the SOW.</p>
216	For Part B SOW item 12.14 requirement 1.1.1.2h, it is requested to refill the CPP system with EAL oil. To operate the CPP with EAL oil, the CPP needs to be upgraded to be EAL compliant. Is Canada requesting to perform such an upgrade?	

217	For Annex H (life cycle costs for propulsion engines); For the sake of clarity for all bidders can Canada please specify the activities for the 5 and 10 year TCMS Inspection to be considered?	Bidders are not required to consider TCMS 5 or 10 year Inspection requirements for the purposes of lifecycle cost assessment. Table 2 of ANNEX H appendix 1 life cycle costs to be disregarded
-----	---	--