



RETURN BIDS TO:

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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.

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Ship Refits and Conversions / Radoubss et
modifications de navires and / et

11 Laurier St. / 11, rue Laurier

6C2, Place du Portage

Gatineau, Québec K1A 0S5

Title - Sujet CCGS Leonard J. Cowley VLE Drydock	
Solicitation No. - N° de l'invitation F7049-210183/A	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client SAP 20210971	Date 2023-03-16
GETS Reference No. - N° de référence de SEAG PW-\$\$MD-045-28883	
File No. - N° de dossier 045md.F7049-210183	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 2023-04-04 Heure Avancée de l'Est HAE	
F.O.B. - F.A.B.	
Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Hora, Bharat	Buyer Id - Id de l'acheteur 045md
Telephone No. - N° de téléphone (343) 551-4942 ()	FAX No. - N° de FAX () -
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

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 Amendment # 5 is issued to:

- 1) Modify Bid Closing Date
- 2) Respond to Vendor Questions
- 3) Modify ITT Section Annex "K"
- 4) Modify Annex A Rev 1, Multiple Sections
- 5) Upload Documents

1) Modify Cover Page – Bid Closing date

Delete: 2023-03-28

Insert: 2023-04-04

2) Respond to Vendor Questions

AA) Questions related to Solicitation Document and General Questions

Question: Due to the changes in the amendments and the additional items, we are requesting a 2-week extension or a 1-week extension. Our subcontractors are having a slow response due to the changes and the Level of Modifications occurring to CCGS Cowley, which is leading to our requests for Quotes being delayed.

Answer: Taking the vessel schedule into account, the maximum further extension that can be granted is for one week. The date and time for submission of bids is now extended to April 04th 2023. Any further requests for the extension of the bid closing date will not be considered. The last date for sending any questions by the bidders will remain as March 21st 2023.

BB) Questions related to Annex A of Solicitation Document

Question: For H-21 Bridge Fixed Window Replacement, please see the below statement from a supplier regarding the replacement windows:

"If these are the replacement windows, in that case can you please provide the exact part number that usually have a 4digit extension number after 70860-XXXX?"

If not, can you please provide following information?

1. Is the glass clear or tinted/type of tint?
2. Heated or not.
3. The type of finish of the frame - Mill, Powder coating or Anodized."

If we can't get the full part number with extension I would need the 3 questions answered for each of the replacement windows please.

Answer: These are not direct replacement windows due to the increase in size. Answers to the three points:

1. Glass would need to be clear.
2. All windows need to be heated.
3. Anodized or powder coated.

The port and stbd fwd inboard windows would need wipers full length of the windows.

The third window looking fwd on port and stbd wings would need to open. Can reuse hardware from the old windows. Because the current wings windows can be opened.

Question: We have been in communication with the Hydraulics company named in H-36 specification and during this time we have been told by them that all hydraulic tubing and fittings will need to be changed to accommodate this new system. This change to the hydraulic piping would be a major addition to this spec but nothing is mentioned in this H-36 about this piping change. We are looking for clarification on a way forward for this specification whether a pipe/fitting/labour allowance is added or another fix

Answer: Section H-36 Watertight Door Controls and Hydraulics Upgrade is now being cancelled and removed from the SOW.

Question: Can we have the Torque Meter Mount drawing for H-53 Fuel Monitoring System Install?

Answer: The drawing L013-11-AN-230224 has now been uploaded on the database under spec item H-53.

Question: Regarding the HD-16 Propulsion Control Upgrade. Suppliers are unable to supply the cable diagrams for this design. That being the case we believe it would be fair to have an allowance added for labor/material regarding the electrical side of this work.

Answer: We are adding the following allowances as the suppliers are unable to supply the cable diagrams - The Contractor must bid an allowance of \$250,000.00 to be used for electrical labor and components related to the installation of this upgrade. This allowance is not to include the purchase of the new propulsion control system from Wartsila. This allowance to be adjusted up or down via PSPC 1379 action based on invoice and timesheets

Question: In regards to L-09 MCC Panels Overhauls our supplier is looking for the MCC drawings that apparently are located inside the door of each bucket.

Is it possible to retrieve these drawings. Supplier is saying quotation without drawings is not possible.

Answer: We are adding the following allowances as the suppliers are unable to quote - The Contractor must bid on providing 350 hours of electrical labour to install rebuilt MCC buckets. The Contractor must provide hourly rate for assistance to be used for adjustment purposes based on PSPC 1379 action.

The Contractor must bid an allowance of \$100,000.00 for supply of new MCC bucket parts and components to be adjusted up or down via PSPC 1379 action based on invoice.

3) Modify ITT Section Annex “K” (to shift item numbers 10, 11, 12, 13 and 15a from Table - K1 to Table K3)

**Annex “K”
 Delete (in its Entirety)**

Replace with

Annex “K”

Mandatory deliverables Check List

Notwithstanding deliverable requirements specified within the bid solicitation and its associated Statement of Work (Annex A), the mandatory deliverables that must be submitted with the Bidder's tender to be evaluated as responsive are summarized in the following tables.

The Bidder must submit, as part of the Bid Package, the completed Annex “K”, Table – K1 “Checklist of Mandatory Deliverables at Bid Closing, Table – K2 “Checklist of Mandatory Deliverables with the Bid or Prior to Contract Award”, and Table – K3, Required Deliverables Prior to Contract Award (If Requested). The Bidder's submitted check lists will be evaluated against the submitted mandatory requirements as defined herein. The Bidder must be determined compliant, on each item, to be considered responsive.

Notes:

1. Please follow the instruction notes provided for in items 12 to 15 of Table K-1, in completing this table.
2. Items 7 and 8 in Table K-1 and item 9 in Table K-2 will not be considered as an evaluation criterion.

Table – K1: Checklist of Mandatory Deliverables at Bid Closing

Item	Description	Included in: Bid Section / Page No.	Completed & Attached
1	Invitation to Tender document part 1, page 1, completed and signed		
2	Separately compiled Technical Bid, Financial Bid, and Certifications as per Part 3, article 3.1		
3	Completed Annex "H" Financial Bid Presentation", clauses H.1 to H.4 and H.6		
4	Completed Pricing Data Sheet, as per Part 3, article 3.1, Section II, and Appendix – 1 to Annex “H”		
5	Completed Annex “K”, Table – K1, Checklist of Mandatory Deliverables at Bid Closing		
6	Completed Annex “K”, Table – K2, Checklist of Mandatory Deliverables with the Bid or Prior to Contract Award		

Item	Description	Included in: Bid Section / Page No.	Completed & Attached
7	Changes to applicable laws as per Part 2 – Bidder Instructions, article 2.4		
8	Integrity Provisions - Declaration of Convicted Offences, or a letter stating its non-applicability as per Part 5 article 5.1.1 The required declaration must be provided, by the Bidder and all its subcontractors known at the time of Bid Closing.		
9	Proof of certification for companies for fusion welding of steel structures to CSA Standard W47.1 (Division 2), and aluminum structures to CSA Standard W47.2 (Division 1 or 2) for the current year, as per Part 5, article 5.1.2.1.a		
10	Vessel Transfer Cost, as per Part 6, article 6.5 and Annex "H"		
11	Preliminary Work Schedule , as per Part 6, article 6.6		
16	Details related to safety measures for fueling and disembarking fuel, as per Part 6, article 6.7		
17	If Registered, the Valid ISO 9001-2015 Certification, as per Part 6, article 6.8		
18	Example of the Bidder's Quality Control Plan, as per Part 6, article 6.9		
19	Example of an Inspection and Test Plan, as per Part 6, article 6.10		
20	Objective evidence of the Bidder's Health and Safety System, as per Part 6, article 6.11		
21	Objective evidence of documented Fire Protection, Fire Fighting and Training Procedure, as per Part 6, article 6.12		
22	Details of the Bidder's environmental emergency response plan, spill response plan, waste management procedures and formal environmental training, as per Part 6, article 6.13		
23	List and qualifications of proposed subcontractors, as per Part 6, article 6.15, and Annex "D"		
24	Proof of meeting the Insurance Requirements, as per Part 6, article 6.17 and 6.17.1, and Annex "E"		
25	Written confirmation from the Bidder that the services of the listed FSRs will be provided, as per Part 6, article 6.18		
26	Written confirmations from all the listed FSR companies as per Part 6, article 6.18		
27	Names, brief resumes, and list of duties for each of the Project Management's team members, as per Part 6, article 6.19		

Table – K2: Checklist of Mandatory Deliverables with the Bid or Prior to Contract Award

Item	Description	Included in: Bid Section / Page No.	Completed & Attached
1	Integrity Provisions, the required documentation, if applicable (must be provided by the Bidder and all its subcontractors who are known at the time of Bid Closing), as per Part 5, articles 5.2.1		
2	Certification for Federal Contractors Program for Employment Equity, as per Part 5, article 5.2.2, and Annex "O"		
3	Workers Compensation Certification – Letter of Good Standing, as per as per Part 5, article 5.2.3		
4	Proof of valid labour Agreement and the related documentation, as per Part 5, article 5.2.4		
5	Signed confirmation that they and all their sub contractors conform to the PWGSC (PSPC) Code of Conduct for Procurement, as per Part 5, article 5.2.5		
6	Docking Facility – valid certification of the capacity and condition of the docking facility, as per Part 5, article 5.2.6		
7	Docking Facility – capacity for equipment with vessel side accesses, as per Part 5, article 5.2.6		
8	Docking Facility – proof of sufficient crannage capacity to lift tonnage included in Annex "A", as per Part 5, article 5.2.6		
9	Certification for status and availability of Resources, as per Part 5, article 5.2.7		
10	Bidder's declaration, in writing, that they are not interested in owning the Intellectual Property Rights in Foreground Information		

Table – K3, Required Deliverables Prior to Contract Award (If Requested)

Item	Description	Reference in This Solicitation Document	Due by:
1	Proof of Financial Capability	Part 6, article 6.3	5 Working days after the notice
2	Commitment letters from specified sub-Contractors indicating the number of resources available for different periods	Part 6, article 6.6	Within 10 working days of the request
3	Confirmation of names, brief resumes, and list of duties for each of the Project Management's team members	Clauses 6.19 and 7.19	Within 5 working days of the request

Item	Description	Reference in This Solicitation Document	Due by:
4	Proof of employed or sub-contracted inspection personnel currently certified to the required CSA Standards, by the Bidder or its subcontractor, as per Part 5 articles 5.1.2.1.b.		
5	Proof of employed welders currently certified to the required CSA Standards, by the Bidder or its subcontractor, as per Part 5 articles 5.1.2.1.c. Please indicate attached, or "Not Applicable" if the		
6	Proof of employed welding supervisors currently certified to the required CSA Standards, by the Bidder or its subcontractor, as per Part 5 articles 5.1.2.1.d.		
7	Proof of capability to obtain, as and when required, personnel currently certified / approved to the required CSA Standards, by the Bidder or its subcontractor, as per Part 5 articles 5.1.2.1.e.		
8	Indicate the Work Schedule software and version used, per clause 6.6 (to be approved by TA).		

Table – K4, Required Deliverables and Documentation after Contract Award

Item	Description	Reference in This Solicitation Document	Due by:
1	Insurance requirements and certification	Part 7, article 7.12, and Annex E	15 Working days after Contract Award
2	Notice of insurance cancellation or changes thereto	Annex E	30 days prior to effective dates of cancellation or changes
3	Contract Financial Security	Part 7, article 7.14.2	5 working days after contract award
4	Revised Work Schedule	Part 7, article 7.18	As per Annex A - H-01
5	Contractor's Quality Management System	Part 7, articles 7.27.1	Twenty One (21) Calendar days after Contract Award
6	List of Government specialized loaned equipment that the Contractor intends to request.	Part 7, articles 7.25	5 working days after contract award
7	Quality Management Program (QMP) that specifically addresses the Contract Work to be submitted for approval	Part 7, articles 7.27	15 working days after contract award

Item	Description	Reference in This Solicitation Document	Due by:
8	Contractor's Quality Control Plan	Part 7, articles 7.27.2	15 working days after contract award
9	ITP to be submitted for approval	Part 7, articles 7.27.4	15 working days after contract award
10	Progress Photographs and images, when requested	Part 7, articles 7.43	With each progress report
11	Notice of scheduled tests or trials	Annex F, article F.4.10	7 calendar days Prior to each event
12	Drawings for identification markings' approval	Part 7, articles 7.47	Three (3) Working days before production

4) Modify Annex A (Rev 1) Multiple Sections (changes highlighted in yellow)

AA) Section H-36 Watertight Door Controls and Hydraulics Upgrade

Delete (in its Entirety)

BB) At HD-16 Propulsion Control Upgrade:

Add/Insert:

1.2.1.12 The Contractor must bid an allowance of \$250,000.00 to be used for electrical labor and components related to the installation of this upgrade. This allowance is not to include the purchase of the new propulsion control system from Wartsila. This allowance to be adjusted up or down via PSPC 1379 action based on invoice and timesheets

CC) At L-09 MCC Panels Overhauls:

Delete (in its entirety): Section 3.1.7

Add/Insert:

3.1.7 The Contractor must bid on providing 350 hours of electrical labour to install rebuilt MCC buckets. The Contractor must provide hourly rate for assistance to be used for adjustment purposes based on PSPC 1379 action. The Contractor must bid an allowance of \$100,000.00 for supply of new MCC bucket parts and components to be adjusted up or down via PSPC 1379 action based on invoice.

DD) At L-18 Local Area Network Upgrade

Add/Insert:

2.5.5 The Contractor must provide a unit cost per m for Fiber cable. Belden 6 core Fiber P/N: TM-3LF-006-HBAN marine ABS LAN backbone.

3.1.12.1 Note there is quantity of ONE fiber run from bridge lan rack to server lan rack and ONE fiber run from ships office lan rack to server rack.

At 3.1.14

Cable List Bridge

Add:

7	LAN-SW1-TRUNK1	Fiber (TM-3LF-006-HNAN)	Bridge Rack, Aft, Nav Bridge	LAN Rack
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Cable List Ships Office

Add:

32	LAN-SW1/2-TRUNK2	Fiber (TM-3LF-006-HNAN)	Ships Office LAN Rack	LAN Rack
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Cable List LAN Room

Add:

6	LAN-SW4-TRUNK1	Fiber (TM-3LF-006-HNAN)	Ships Office LAN Rack	Ships Office LAN Rack
7	LAN-SW4-TRUNK2	Fiber (TM-3LF-006-HNAN)	Ships Office LAN Rack	Bridge LAN rack

EE) At L-20 LAN Room Rack Relocation Bridge Rack Modification

Add/Insert:

3.1.20.1 The Contractor must bid on installing 2 outlets in the Bridge Rack as shown below (PWR-1, PWR-2) and provide a unit cost for each outlet. If not required, the amount will be adjusted accordingly via PSPC 1379 action.

Add to 3.1.22 Cable List Bridge Rack

W200	LMR600	TX-L Band, Seatel Antenna	Bridge Rack	20
W201	LMR600	RX-L Band, Seatel Antenna	Bridge Rack	20

PWR-1**	14/3 SB	Bridge Power Panel, Spare	Bridge Rack	10
PWR-2**	14/3 SB	Bridge Power Panel, Spare	Bridge Rack	10
TVRO11	Belden 1694SB or Similar	LAN Room, Upper Deck, Aft, Sat Multi Switch #1, connection R	Bridge Rack	100
TVRO12	Belden 1694SB or Similar	LAN Room, Upper Deck, Aft, Sat Multi Switch #1, connection L	Bridge Rack	100

FF) At L-05 Distance Measuring Equipment (DME)

Delete (in its entirety): Sections 3.3.4, 3.1.10, 3.1.11

Add/Insert:

(Add At)

3.2.5.1 Table 1 – DME Cable Removal List

DME-PWR	Braided 14 AWG AC Cable	DME Cabinet Electronics Equipment Room aft bridge deck	Power Panel L1-5/7	AC
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3.3.4 The Contractor must install the DME cabinet on the Bridge Deck. A suggested location will be in the aft electronics room where the original DME equipment is currently located. Size requirements of the new equipment may limit that space and an alternate space may be suggested by the ships crew. The exact location will be determined by the Technical Authority at the time of work. Should the area require a support base for the DME cabinet, a PSPC 1379 will be raised to cover this cost. The Contractor will be responsible for constructing said base as per a CCG representatives direction. Base would be made of MDF, or other approved type material, trimmed out with a laminate type material including edging. Contractor must secure the base to the deck using approved brackets and hardware.

3.1.10 The Contractor must supply and install a new AC cable in Power Panel (**Bridge/L1/breaker 5/7**) to DME Cabinet aft wheelhouse. Contractor must supply and install class approved cable and 15 Amp Circuit Breaker. New cable to include marine protective braid with outer PVC Jacket. Contractor will terminate AC to DME Cabinet.

3.1.11 The Contractor shall supply and install the cable indicated in table 3 below. All cable must be marine grade, ABS approved and fire rated for outdoor use. Cable must be verified by a CCG representative prior to installation. Should the cable not meet CCG specifications, new cable will be ordered at the contractors expense.

3.1.11.1 Table 3

Cable Label	Cable Type	From	To	Length
DME-ANT	LMR 600	DME cabinet, Bridge Deck, Electronics room aft.	DME Antenna Bridge Top Port Side	30
DME-MON	LMR-600	DME cabinet, Bridge deck, Electronics room aft.	DME Antenna Bridge Top Port Side	30
DME-3	CAT6A Marine Grade	DME cabinet, Bridge deck, Electronics room aft.	DME Remote Operator Panel Wheel house	30
ECS-TV-DIST	RG-6	ECS cabinet, Bridge Deck	Aft electronics rack	20

GG) Section H-11 Lifeboat and Davit Replacement

Delete (in its entirety)

Replace with:

H-11 Lifeboat and Davit Replacement – REVISION 1

Part 1 – Scope

- 1.0** The intent of this Statement of Requirements (SOR) is for The Contractor to supply one (1) new Palfinger KISS700C QD Sidehatch-100 Totally Enclosed 50 Person Lifeboat or equivalent. Specs for the KISS700C QD Sidehatch-100 lifeboat can be found with the Technical Data on the link provided.
 - 1.0.1** If equivalent lifeboat is proposed, the proposed make of lifeboat must be in current marine service and must have Original Equipment Manufacturer (OEM) representation in Canada. The manufacturer’s appointed service organization must hold a stock of essential spares and be capable of providing qualified field service representatives (FSRs), thorough component documentation support, with the capability to provide technical support for standard overhaul as well as repair. The service organization must be capable of delivering these services and parts to St. John’s, NL, within forty-eight (48) hours of notification by the CCG.
 - 1.0.2** The Contractor must submit their proposed lifeboat recommendations to Canada for review, selection, and approval.
 - 1.0.3** The Contractor must dispose of existing port side lifeboat.
- 1.1** The Contractor must refurbish port side davit system as described below in Part 3 – Technical Description.
- 1.2** The Contractor must be responsible for the removal of the existing stbd side Schat-Harding davit and lifeboat and its associated controls.
 - 1.2.1** All removed equipment must be retained for inspection by CG TA and Palfinger FSR to determine if equipment is in acceptable condition to refurbish for future use. The stbd lifeboat and all parts agreed to be disposed of by CG TA must be properly disposed of by The Contractor. The costs associated with disposal must be included as part of the bid.
- 1.3** This work must be carried out in conjunction with the following specification items:

1.3.1 H-10 Port and Stbd Miranda Davit Annual Inspection

Part 2 - References

2.1 Rules, Regulations and Standards

2.1.1 All design, material and work must meet the Classification Society's (ABS) and Transport Canada Marine Safety and Security (TCMSS) requirements for approval and purpose on the vessel. The Contractor must identify and coordinate any specific requirements in accordance with the Acts, Regulations, Standards, Rules, Codes and Guidelines referenced in this specification, (reference General Requirements, Section 4.0).

2.1.2 TCMSS approval, of design, material, work, and testing, over and above Class approval, must be met as and when required.

2.2 Drawings and Documents

2.2.1 The following drawings and documents are being referenced for guidance purposes only and a complete listing of available documents and drawings for the CCGS Leonard J Cowley's VLE Project is included in Appendix A of this VLE's Technical Data Package.

Drawing N°	Description
590-70	General Arrangement – Profile Navigating Deck, Bridge deck & Foc'sle Deck Sht. 1 of 2
590-70	General Arrangement – Upper, Main Deck and Hold Sht. 2 of 2
590-12	Superstructure – Structural Plan Sht. 2 of 2
590-04	Profile and Decks Sht. 10f 2
548-12	Boarding and Lifeboat Arrangement
NB3037 A	KISS700 C Stbd GA SABB L3 w/EL. Start
NB3059 A	KISS700 C Port GA SABB L3 w/EL. Start
1512-004	Life Saving Equipment Plan
ATS/3632791/H/01	LRS Marine Design Appraisal Document

	Leonard J Cowley Port and Stbd Davit Installation
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2.3 Existing Equipment

2.3.1 Davits

2.3.1.1 OEM: Schat-Harding UK

2.3.1.2 Model: GRANT75 (x2)

2.3.2 Davit Winch(s)

2.3.2.1 OEM: Schat-Harding UK Harding Safety AS

2.3.2.2 Model BE4500 (x2) Model: BHY 5300 (x2)

2.3.3 Lifeboat

OEM Schat-Harding USA

Model KISS 700 (x2)

Length Overall: 6490 mm Height Overall: 2850 mm

Breadth Overall: 2910 mm Capacity: 50 Persons

Weight Empty: 2399 KG Weight Fully Loaded: 6578 KG

Engine: 29 HP Speed: 6 Knots

2.4 Contractor Supplied Material

2.4.1 The Contractor must supply all labour, equipment, materials, and tools required to perform the work as specified.

2.5 OEM/SUPPLIER/FSR

2.5.1 The Contractor must also include in their proposal the cost to provide the services of an authorized OEM FSR for the new lifeboats and the associated equipment, and components being supplied. The OEM FSR is to oversee the installation(s) as well as the related commissioning and testing.

2.6 Government Supplied Equipment

2.6.1 N/A

2.7 Government Furnished Equipment

2.7.1 N/A

Part 3 – Technical Requirements

3.0 General

- 3.0.1 The Contractor must replace the existing port side Schat-Harding KISS700 Lifeboat with new KISS700C QD Sidehatch-100 or equivalent.
- 3.0.2 The Contractor must provide a complete, Class approved design and drawing package for full scope of the lifeboat replacement.
- 3.0.3 All new equipment being supplied and used to satisfy the requirements of this specification must be of current manufacture.

3.1 Procurement Requirements

3.1.1 Introduction

3.1.1.1 The Contractor must be responsible for the procurement and delivery of the lifeboat assembly, complete with any agreed upon spares and specialized tools, to their facilities in Canada.

3.1.1.2 All lifeboat equipment, must be supplied by The Contractor, on a turnkey basis.

3.2 Delivery

- 3.2.1 On delivery to The Contractor's facilities, the lifeboat must be inspected for any shipping damage. Arrangements must be made with Canada to have a representative present when these deliveries arrive on site and this representative must be allowed complete access to allow him or her to perform a full inspection on behalf of Canada. This inspection will require the opening of crates and or shipping boxes but will not require the opening of any hermetically sealed units unless damage to the packaging can be readily seen.
- 3.2.2 The Contractor must provide a minimum of five (5) days' notice to Canada to allow their designated representative to prepare and attend this inspection and The Contractor must provide any assistance required to allow Canada's representative access the various components.
- 3.2.3 The Contractor must also provide the necessary services and labor required to allow these inspections to take place.
- 3.2.4 After a satisfactory inspection, the lifeboat, and its associated equipment/components are to be safely stored, protected from adverse weather and are to be quarantined until they are ready for installation.

3.3 Stbd Side Lifeboat and Davit System

3.3.1 The Contractor must remove stbd side lifeboat for inspection by CG TA and Palfinger FSR. Any parts/components required to be retained to be identified by CG TA and remaining must be disposed of by the Contractor at the Contractors expense.

3.3.2 The Contractor must remove the stbd side davit and all associated equipment, hydraulics and electrical connections in the least destructive method available. All parts must be retained for inspection by CG TA and Palfinger FSR. Any parts/components required to be retained to be identified by CG TA and remaining must be disposed of by the Contractor.

3.3.2.1 The Contractor must bid an allowance of \$75,000.00 for the refurbishment of identified davit components by the CG TA to be adjusted up or down via PSPC 1379 action based on invoice.

3.3.2.2 The Contractor must remove all raised welds and/or brackets from the deck and ensure deck is left flush.

3.3..2.3 The Contractor must prep, prime and paint any disturbed area of deck.

3.4 Port Side Davit Refurbishment

3.4.1 The Contractor must arrange for the services of a Palfinger Marine Representative to carry out the 5 Year Inspection and Survey.

3.4.2 The Contractor must bid on having FSR onsite for the below hours. The Contractor must provide a daily rate for FSR to be used for adjustment purposes via PSPC 1379 action.

3.4.2.1 14 working days at 10hrs per day (140 hrs total) and 2 days travel at 12 hrs per day (24hrs total).

3.4.3 The Contractor must arrange for UT Shots and MPI testing of the davit structure, lugs, pins, deck area, etc and must be carried out by a Certified Level II Technician. FSR, CG TA and ABS Class Surveyor to provide guidance as to where the UT Shots and MPI are to be taken. The Contractor must bid on performing 120 UT Shots and 64 linear ft of MPI. The Contractor must provide unit cost per UT Shot and per ft of MPI to be adjusted up or down via PSPC 1379 action.

3.4.3.1 Any deficiencies found must be discussed with the CG TA, FSR and ABS Class Surveyor prior to work commencing.

3.4.4 The Contractor must remove all components and equipment from davit structure for inspection by CG TA and Palfinger FSR. CG TA and FSR to determine if components are to be replaced with new or refurbished.

3.4.4.1 The Contractor must bid an allowance of \$250,000.00 to be used for procurement of parts and refurbishment of existing parts. Actual amount to be adjusted up or down via PSPC 1379 action based on invoice.

3.4.5 The Contractor must bid on complete grit blasting of davit. All blasted areas must be coated as per existing superstructure paint specification.

3.4.6 The Contractor must reinstall all removed components and equipment with new/refurbished parts under the direction of Palfinger FSR.

Part 4 – Proof of Performance

4.0 Inspection

4.0.1 All work performed must be inspected and must be to the satisfaction of the attending ABS Surveyor, and the CG TA.

4.1 Test and Trials

4.1.1 The Contactor under the guidance of the OEM's FSR, must be responsible for proof testing the new davit assemblies to the satisfaction the attending ABS surveyor and the CG TA.

4.2 Factory Acceptance Testing (FAT)

4.2.1 The lifeboat must be tested in accordance with regulatory requirements. Factory Acceptance Testing (FAT) procedures must be carried out at the manufacturer's facility.

4.2.2 The Contractor must ensure that a Factory Acceptance Trials (FAT) Plan from the OEM is provided for submission and review by Canada and then arrange to perform the required FAT, based on the submitted plan.

- 4.2.3** The FAT Plan must identify the tests and trials which are to be performed in order to satisfy this SOR, and to support certification requirements by the designated Classification Society. The FAT plan is to identify all conditions, precautions, adjustments, the expected test results, and the test equipment required to verify the correct operation of the new engines.
- 4.2.4** The FAT test report must be provided by the OEM and is to be signed off by the attending Class surveyor and copies provided to Canada. The results of the FAT tests and the accompanied test report are to be to the satisfaction of both attending Class surveyor and Canada, before the new lifeboat and davit assemblies are prepared for shipment to the Contractor's facilities.
- 4.2.5** Canada reserves the right to provide personnel to visit the OEM Facilities during the fabrication phase of the new engines as well as attending the FAT(s), at the OEM's facilities. These visits will be at Canada's expense. For such cases, the Contractor must provide a minimum thirty (30) days' notice for trials at OEMs premises.
- 4.2.6** Three (3) typewritten copies of all above noted test data must be provided to the CG TA prior to acceptance.
- 4.3 Harbour (Dock) Acceptance Trials (HATs)**
- 4.3.1** Once davit refurbishment has been completed, and is ready for operation, The Contractor must be responsible for the necessary commissioning and startup tests of the lifeboat as required by the OEM and Class. The commissioning and testing must only be done under the full guidance of the OEM's authorized FSR and is to be witnessed by the attending Class surveyor and the CG TA.
- 4.3.2** The Contractor must arrange to have the attending ABS Surveyor and the CG TA to inspect the newly installed equipment, to establish cleanliness, tightness, and that the supporting systems are correctly connected, i.e., electrical power, hydraulics, fluid levels, control systems, etc. All work is to be to the satisfaction of ABS and the CG TA. Any deficiencies found must be rectified immediately by The Contractor. Necessary battery charging, signals, food rations, water rations, communications, hoisting hook connections with inside releases, loose equipment etc. to be also delivered to the satisfaction and requirements of the authorities.
- 4.3.3** All controls, alarms, and shutdowns must be proven functional, their operations witnessed, and is to be to the satisfaction of all both the attending ABS Surveyor and the CG TA.
- 4.3.4** Davits are to be tested using certified weights and copies of the weight certificates are to be provided to the CG TA.
- 4.4 Sea Acceptance Trials (SATs)**
- 4.4.1** Upon completion of successful HATs and when all work has been completed to the satisfaction of the attending ABS surveyor and the CG TA, The Contractor must then be responsible for arranging to have a formal SAT performed to prove the operability and performance acceptance of the new lifeboat and davit assemblies whilst at sea.

- 4.4.2** Five (5) working days prior to commencing sea trials, the Contractor must provide a trials agenda and booklet to the CG TA complete with the sign off section for evaluation by the witnessing parties.
- 4.4.3** The Contractor must be responsible for producing, recording, and maintaining all trial sheets.
- 4.4.4** Three (3) typed copies of these trial sheets must be given to the CG TA after completion of all trials
- 4.5 Completion and Acceptance**
- 4.6.1** On completion of a satisfactory SAT the Contractor must remove all hydraulic filters used during trials and replace them with new Contractor supplied filters units.
- 4.6.2** Filters are to be broken open and the filter elements removed for inspection. This is to be witnessed by the OEM's FSR, the attending ABS surveyor and the CG TA.
- 4.6.3** Final acceptance will not be performed until all of the above tests and trials have been satisfactorily completed with data available for review. The new lifeboat must be ready for service in all respects and any identified discrepancy(s) must have been corrected.
- 4.6.4** The CG TA will conduct the final inspection and will advise the PSPS CA when the new lifeboat assembly is ready for Acceptance as per the Contract.

Part 5 - Deliverables

5.1 Technical Data

- 5.1.1** The following technical data must be supplied for the proposed lifeboat and proposed davit system; the documentation must be supplied in three (3) typewritten and three (3) electronic copies in Adobe PDF documents. All documents provided shall be provided in both English and French .
- 5.1.1.1** Complete Bill of Materials (BoM)
 - 5.1.1.2** Operation, Service, and parts manuals
 - 5.1.1.3** Functional Descriptions
 - 5.1.1.4** Detailed drawings of equipment to be installed within the Contractor's scope
 - 5.1.1.5** Approved foundation/mountings and dimension details
 - 5.1.1.6** Approved schematic drawings of all systems.
 - 5.1.1.7** Electrical Single Lines and Schematics
 - 5.1.1.8** Site Acceptance Test Procedures
 - 5.1.1.9** All relevant class approved drawings, engineering studies, and documents.
 - 5.1.1.10** Individual masses, including Center of Gravity (CoG) indication, of the proposed lifeboat.
 - 5.1.1.11** Original Class Type Approval certificates for the lifeboat, along with two (2) copies.
- 5.1.2** The above noted drawings are to be submitted in triplicate, both in hard copy and in AutoCAD DWG format to Canada.
- 5.1.3** All drawings requiring Classification approval shall be the responsibility of The Contractor. Copies of the original stamped drawing shall be provided to Canada.
- 5.1.4** Electronic documents must be supplied within sixty (60) days of award of contract and be Adobe PDF.

Electronic files must have a resolution no less than 300 dpi, be manufacturer approved, and retain the colors of the original documents.

- 5.1.5** The supplier must provide a minimum of one (1) year warranty from the date at which each lifeboat becomes operational.
- 5.1.6** For the purpose of the installations the various components may need to be separated and subsequently reassembled. If separation and reassembly is required, this practice must not void the manufacturer's warranty.
- 5.1.7** The Supplier must indicate if warranty requires Field Service Representative installation and commissioning.
- 5.1.8** The Contractor must provide updated "as fitted" drawings of the structural modifications made, updating the GA of the Main Deck Profile drawing to reflect the locations of the new equipment installed, the updating of the Life Saving Equipment Plan, and providing single line electrical drawings of all new electrical installations and connections.
- 5.1.9** In addition to the above The Contractor must also provide to the CG TA with all of the documents listed below:
 - 5.1.9.1** All original Classification certificates and TCMSS Notices of Compliance
 - 5.1.9.2** Copies of all hydraulic hose pressure test certificates
 - 5.1.9.3** Copies of all NDT report(s) relating to this installation.
- 5.1.10** The Contractor must provide the CG TA with a typewritten report of The Contractor's work in both electronic and hardcopy formats outlining the details of the installation and any alterations / repairs made prior to the acceptance of this item.

5.2 Manuals

5.2.1 Lifeboat Operational Manual

- 5.2.1.1** The Contractor must compile and provide a comprehensive LIFEBOAT OPERATIONAL MANUAL which must include all of the general information in sufficient detail to support the operational and maintenance requirements of the lifeboat.
- 5.2.1.2** The LIFEBOAT OPERATIONAL MANUAL, including any necessary Annexes and supporting documents, must fully describe all features of the lifeboats and document its production, tests, trials, and certification.

NOTE: All original classification certificates and TCMSS Notices of Compliance must be separately delivered to the TA – copies only must be included in the LIFEBOAT OPERATIONAL MANUAL

- 5.2.1.3** The LIFEBOAT OPERATIONAL MANUAL must be presented in the following format with its individual sections defined as follows:

TABLE OF CONTENTS

INDEX TO DOCUMENTS (separate manuals)

- 1.0 – DESCRIPTION
- 2.0 – CERTIFICATION
- 3.0 – ARRANGEMENT DRAWINGS (if available)
- 4.0 – STRUCTURAL DRAWINGS (if available)
- 5.0 – ELECTRICAL SYSTEM SCHEMATICS (if available)
- 6.0 – HYDRAULIC POWER PACKS (if available)
- 7.0 – HYDRAULIC SCHEMATICS (if available)
- 8.0 – HYDRAULIC CYLINDERS (if available)
- 9.0 – CONTROL AND SAFETY SYSTEM SCHEMATICS (if available)
- 10.0 – PRIMARY CONTROL STATION (if available)
- 11.0 – DAVIT RIGGING DIAGRAM (if available)
- 12.0 – LOAD HOOKS AND LOOSE GEAR (if available)
- 13.0 – MISCELLANEOUS
- ANNEX I – (separate document)
- ILLUSTRATED PARTS BREAKDOWN DIAGRAMS
- DETAILED PARTS LIST
- ANNEX II – (separate document)
- SUPPLIER MANUALS
- ANNEX III : (separate document)
- CLASS CERTIFICATES, TCMSS NOTICES OF COMPLIANCE (etc., copies only)
- MATERIAL, EQUIPMENT & RIGGING TEST CERTIFICATES
- TESTS AND TRIALS RECORDS

5.3 Spare Parts and Specialize Tool Requirements

- 5.3.1** The Contractor must provide all mechanical and electrical spares required to perform two (2) years of the recommended regularly scheduled maintenance. The required spares must be genuine OEM parts as published in the manufacturer's maintenance manual.

- 5.3.2** The Contractor will provide a list of manufacturer recommended spares for a fifteen (15) year lifespan as published in the manufacturer's maintenance manual. The list must include part numbers, lead-time to order, retail prices at time of bid submission, complete with a list of Canadian distributors and service centers.

5.4 Certification

5.4.1 The new lifeboat and their associated equipment / components must be designed, approved, constructed, tested, trialed, inspected, and certified in accordance with the Rules of the designated Classification Society (ABS) and TCMSS.

5.4.2 All original Class and TCMSS (where applicable) approval certificates for all system components must be submitted to the CG TA prior to the acceptance of this item.

6.0 Training

6.0.1 N/A

5) Upload Documents – Pricing Data Sheet Revision 4 (to incorporate allowances mentioned above)

File name: Documents Amendment 5.zip

End of Solicitation Amendment #5