



**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

**LETTER OF INTEREST
LETTRE D'INTÉRÊT**

Comments - Commentaires

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

Issuing Office - Bureau de distribution
Ship Construction, Refit and Related
Services/Construction navale, Radoubs et services
connexes
11 Laurier St. / 11, rue Laurier
6C2, Place du Portage
Gatineau
Québec
K1A 0S5

Title - Sujet NSFRV RFID Deck Equipment DPID du système de l'équipement de pont	
Solicitation No. - N° de l'invitation F7013-200032/D	Date 2020-12-17
Client Reference No. - N° de référence du client F7013-200032	GETS Ref. No. - N° de réf. de SEAG PW-\$\$MC-040-28032
File No. - N° de dossier 040mc.F7013-200032	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2021-01-21 Heure Normale du l'Est HNE	
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: Deslauriers(MC Div), Stephane	Buyer Id - Id de l'acheteur 040mc
Telephone No. - N° de téléphone (819) 420-2899 ()	FAX No. - N° de FAX (819) 956-0897
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



Item Article	Description	Dest. Code Dest.	Inv. Code Fact.	Qty Qté	U. of I. U. de D.	Unit Price/Prix unitaire FOB/FAM		Delivery Req. Livraison Req.	Del. Offered Liv. offerte
		Total			Each	Destination	Plant/Usine		
4	RFID Deck Equipment			0		\$	\$		

**REQUEST FOR IDENTIFICATION OF POTENTIAL SUPPLIERS
FOR A SINGLE SYSTEM INTEGRATOR FOR
THE DECK EQUIPMENT SYSTEM (RFID – DECK EQUIPMENT)
FOR THE NEAR-SHORE FISHERY RESEARCH VESSEL (NSFRV)
FOR
THE CANADIAN COAST GUARD (CCG)**

TABLE OF CONTENTS

PART 1	GENERAL INFORMATION	2
1.1	Introduction	2
1.2	Background	3
1.3	Overview of the Requirement	3
1.4	Fairness Monitor	3
1.5	epost Connect service	3
1.6	SSI and RAL	3
1.7	Scope of Work for the Deck Equipment Subcontract under the RAL Contract	3
1.8	Appendix 2 Documents	10
PART 2	Respondent INSTRUCTIONS	11
2.1	Standard Instructions, Clauses and Conditions	11
2.2	Submission of Responses	11
2.3	Enquiries and Comments	12
2.4	PSPC Authority	12
2.5	Costs Incurred by the Respondents	12
2.6	Applicable Laws	12
2.7	Language for Future Communications	12
PART 3	RESPONSE PREPARATION INSTRUCTIONS	13
3.1	Response Preparation Instructions	13
3.2	Section I: Technical Response	13
3.3	Section II: Financial Response	13
PART 4	EVALUATION PROCEDURES AND BASIS OF QUALIFICATION	14
4.1	Evaluation Procedures	14
4.2	Technical Evaluation - Mandatory Technical Criteria	14
4.3	Basis of Identification	14
4.4	Financial Responses	17

Annexes:

Annex A – Response Evaluation Score Sheet

Annex B – Form 1 - Submission Form

Annex C – Concept of Operations and Mission Profiles, Design Drawings, and RAL Terms and Conditions

Annex D – Coin Toss Agreement

**REQUEST FOR IDENTIFICATION (RFID) OF POTENTIAL SINGLE
SYSTEM INTEGRATORS (SSI) FOR
THE DECK EQUIPMENT SYSTEM (THE “RFID – DECK EQUIPMENT”)
FOR THE NEAR-SHORE FISHERY RESEARCH VESSEL (NSFRV)
FOR
THE CANADIAN COAST GUARD (CCG)**

PART 1 GENERAL INFORMATION

1.1 Introduction

This RFID – Deck Equipment is neither a Request for Proposal nor a solicitation of bids or tenders and is intended only to rank qualified Single System Integrations (SSIs). The previous Requests for Information, this RFID - Deck Equipment, and the build RFP are the three parts of the procurement process for the NSFRV. No contract with Canada will result from this RFID - Deck Equipment process. Rather, Canada will compile a list of qualified SSIs based on the results of the RFID - Deck Equipment process. The list will rank SSIs based on the highest combined rating of technical merit and price. The SSI with the highest overall score will be recommended to work with Canada's design contractor – Robert Allan Ltd (RAL).

The SSI's deck equipment selected as a result of this RFID – Deck Equipment process and negotiations with RAL will be integrated in the overall design of the new NSFRV by RAL. It is the intent that only the selected SSI's deck equipment will be used in the subsequent build RFP. Canada, at its sole discretion, may decide to use an off-ramp exit strategy such as purchase the equipment in a separate bid solicitation or permit equivalents as necessary (for example, if costs become inflated during the process).

Below are the intended phases of the procurement process for the new NSFRV.

Procurement Process	
Request for Information (RFI)	Industry Engagement for the design phase of the process (August 2018 and August 2019)
RFID of SSI for NSFRV	RFID process used to select a SSI for NSFRV will result in the creation of a list of ranked SSIs who meet the criteria identified in this RFID - Deck Equipment. There may be up to five (5) separate RFID of SSI for the various systems required for the design of the new NSFRV. This RFID is for the deck equipment system.
Build RFP	Build RFP using the design from RAL which may include a deck equipment SSI identified as a result of this RFID – Deck Equipment process and integrated into the new NSFRV design.

Given that this RFID - Deck Equipment may be cancelled by Canada at any time in accordance with the applicable terms, it may not result in either the creation of a list of ranked SSIs or the recommendation of a SSI to RAL.

The RFID is divided into the following four parts:

Part 1 **General Information:** provides a general description of the requirement;

Part 2 **Respondent Instructions:** provides the instructions, clauses and conditions applicable to the RFID;

Part 3 **Response Preparation Instructions:** provides suppliers with instructions on how to prepare their response; and

Part 4 **Evaluation Procedures and Basis of Qualification:** indicates how the responses will be evaluated and the basis of qualification.

1.2 Background

CCG's Fleet of NSFRVs play a key role in the delivery of fishery research in Canada's waterways. Currently, there are four NSFRVs in service. Three were replaced under Economic Action Plan (EAP 2009) and entered into service in 2012. The fourth NSFRV is now in need of replacement.

An updated set of requirements has been developed for the vessel based on user input from those working on the Economic Action Plan (EAP) 2009 NSFRVs and updated regulatory requirements. Additionally, the government wide innovation mandate, as well as the NSFRV project's own specific innovation mandate to explore solutions related to "green" technologies, diversity, human factors, as well as the anticipated 20 year lifecycle from entry into service, have driven the revised set of requirements.

1.3 Overview of the Requirement

The NSFRV will be based on the original design of the 25 metre CCGS Vladykov designed by RAL for the three NSFRVs built under EAP 2009. However, the updated NSFRV vessel design will be modified to meet CCG requirements based on lessons learned, operator input, and the innovation mandate of the NSFRV Project. Upon completion of the design phase by RAL and acceptance of the design package by Canada, Canada intends to use the design as part of the basis for a competitive build RFP. The design package will be provided to the shipbuilder as the key input for the build of the new NSFRV. The shipbuilder will be selected through a separate competitive solicitation process to be announced at a later time.

Once under contract with RAL, work for the deck equipment SSI will be initiated via task authorization process directed by RAL as approved by Canada.

1.4 Fairness Monitor

Canada has retained the services of a fairness monitor for the entire procurement process to act as a third party monitor. This fairness monitor will be given access to all the procurement documents and responses submitted by the Respondents for all phases and provide recommendations to Canada on its processes and method of selection to ensure they meet the Government of Canada mandate on openness, equality and fairness.

1.5 epost Connect service

This RFID - Deck Equipment allows Respondents to use the epost Connect service provided by Canada Post Corporation to transmit their response electronically. Respondents must refer to Part 2 entitled Respondent Instructions, and Part 3 entitled Response Preparation Instructions for further information.

1.6 SSI and RAL

Canada has a contract with RAL for the design of the NSFRV. The RFID process for the deck equipment will create a list of qualified SSI's. Using the process stated at Section 4.3 Basis of Selection, Phase 4 – Qualified Respondent List and Ranking, a respondent may become a sub-contractor under the design contract. The terms and conditions of RAL's design contract with Canada is expected to be flowed down. For reference these terms and conditions are included at Annex C.

1.7 Scope of Work for the Deck Equipment Subcontract under the RAL Contract

- 1.7.1** Canada envisions having a common deck equipment system Single System Integrator (SSI) for the design, construction and in-service support for the NSFRV. Given this intent, the first phase of this plan is to select a deck equipment system SSI to support RAL as a Deck Equipment SSI in the design effort with the system responsibility defined in Section 1.7.10. The Deck Equipment SSI will be responsible to work with RAL to develop a final design package to be used as the basis for a competitive RFP process for the build of the new vessel.

The Deck Equipment SSI's effort should be focused on delivering a quality deck equipment design as per the Deck Equipment SSI's own expertise and experience with the system and aligned with the owner's requirements. Given the project's focus on innovation as well as the anticipated 20 year lifecycle of the vessel, the Deck Equipment SSI should call upon its own expertise to provide design input from recent projects to ensure Canada gets a high quality design that supports CCG's operational needs for the lifecycle of the vessel.

- 1.7.2** The SSI will be responsible to support RAL throughout the design process until the design is delivered at the end of the Design Contract. The SSI will be responsible to provide updated specification requirements, calculations, text, and drawings, via tasks directed through the RAL.

For all the equipment defined in the scope of system responsibility at Section 1.7.10, the SSI will be responsible for supporting the selection of the final equipment list to be used in the final design specification as the basis of the Build RFP.

Note: For the pieces of equipment identified by manufacturer/product name as a result of the work of the SSI for the system scope (Section 1.7.10), Canada's intention is that these will be the only items identified in the final design specification for those pieces of equipment, and no 'or equivalent' will be invoked. The Build RFP will direct interested bidders to build the vessel as per the specification and drawing package. However, Canada, at its sole discretion, may decide to use an off-ramp exit strategy such as purchase the equipment in a separate bid solicitation or permit equivalents as necessary (for example, if costs become inflated during the process).

With regard to equipment selection, notions such as ease of use, maintainability, safety, availability of replacement parts, and considerations for meantime between failures will be key to the analysis.

Additionally, a key component of the work will be to identify associated projected costs for both acquisition and lifecycle with equipment across all three phases of the Design Contract Statement of Work.

- 1.7.3** The Design Contract has three phases, as described below.

Phase 1 - Concept Design.

The Respondent's role would primarily be to provide options for the system in the context of the design and given the operational/technical criteria of the project.

Phase 2 – Preliminary Design.

The Respondent would provide additional product data and conduct or support the analyses of various options for their system and, by phase end, help to conclude on a final proposed solution for the system.

Phase 3 – Contract Design

The Respondent would be supporting the effort to ensure integration of the solution determined at Phase 2 into the design.

It is anticipated the Design Contract will take between 12 to 14 months, during which the Respondent will be called upon using a task authorization as required to support design development.

- 1.7.4** RAL, the Contractor, will issue a task authorization to Canada for review and approval before any work can start. This process is described in more detailed in the RAL Terms and Conditions at Annex C. It is anticipated that most work will revolve around providing four key elements: calculations, text (providing context as well as the rationale for changes), updates to requirements, and updated drawings. Updated documents across the three phases will be

delivered via tasks called up to support the design effort across all three phases of the Design Contract.

- 1.7.5** The new NSFRV is a small fishery research vessel with minimal ice capability to transit light ice-infested waters, having accommodations for 11 personnel, a wet lab and a dry lab, no helicopter capability, and is primarily tasked to conduct trawl surveys.

The new NSFRV will primarily conduct fisheries research missions and oceanographic missions. These missions include towing bottom and mid-water trawl nets, towing scallop drags, deploying and retrieving longline nets, towing acoustic survey equipment, and the deployment and recovery of science packages such as a CTD/Rosette, plankton nets, and bottom grabs. The operation of this equipment will be powered using the vessels generator set, batteries, or a combination of the aforementioned. In addition to the above primary missions, the new NSFRV will also be designed to conduct secondary missions, such as search and rescue operations and environmental response missions.

The new NSFRV is intended to go to the St. Lawrence Sector of the Central and Arctic (C&A) Region.

- 1.7.6** The new NSFRV concept design has the following design particulars:

1. Length = 28 m (as per current concept development parameters)
2. Beam, moulded = 9.2 m
3. Depth, moulded = 3.8 m
4. Hull draft, nominal = 3.4 m
5. Complement = 11 total
6. Endurance = operational 12 hours per day for up to 14 days before resupply and/or crew change
7. Days of operation = 270 days (including while on program, and alongside)

- 1.7.7** The new NSFRV will operate in the following environmental conditions:

1. Service area – St. Lawrence River, and Gulf of St. Lawrence
2. Months of operation – April to December
3. Maximum ambient air temperature = 35°C
4. Minimum ambient air temperature = -30°C
5. Minimum sea water temperature = 0°C
6. Maximum sea water temperature = 25°C
7. Transit through ice – transit through strips of New ice <10 cm in thickness. These ice strips shall be comprised of small ice cakes (<2m) as defined by EC SEA Ice coding egg. The vessel will not be used to break ice.

- 1.7.8** The new NSFRV will be under 500 gross tonnage and will not be engaged on international voyages. As such, it will be designed and constructed in accordance with the following regulations and classifications:

1. Built to Class, as per Lloyd's Register rules
2. Transport Canada Home Trade Class II
3. Transport Canada Near Coastal Voyage Class I
4. Canada Shipping Act (CSA) 2001 – Marine Machinery Regulations (SOR/90-264)
5. Canada Shipping Act (CSA) 2001 – Vessel Pollution and Dangerous Chemicals Regulations, Division 6 – Air
6. Transport Canada TP-127 – Ships Electrical Standards

Note: Regulations will be re-visited deeper into the design to ensure alignment with regulatory regime at time of build.

1.7.9 Deck Equipment System Requirements

Where requirements refer to the vessel, the vessel is defined as per the drawings provided and the dimensions as defined therein those drawings. The equipment must fit into the General Arrangement as provided and must reflect adequate maintenance envelopes for the equipment in the allocated space.

The following system requirements are based on the vessel concept design. It is anticipated that the system requirements may evolve as the design progresses as a function of the collaborative work between CCG, RAL (RAL), and the Deck Equipment SSI. As such, the equipment scope, powering breakdown, and capabilities identified are approximations based on the vessel concept design and require further development and rationalization through discussions with CCG.

Deck Equipment General Requirements:

- a. All science winches and sheaves must be fully functional and rated to operate in the following conditions:
 - i. Sea State conditions ranging from, and including, SS 0 to SS 4 (upper range)
 - ii. temperatures ranging from -10 Degrees Celsius to +35 Degrees Celsius for all externally mounted and operated equipment
 - b. All science winches and sheaves must be rated to be stored in temperatures from -30 Degrees Celsius to +35 Degrees Celsius
 - c. All equipment must be supplied with a fully marinized finish suitable for the operational environment
 - d. Exposed on deck electrical equipment will have a minimum NEMA 4X rating
 - e. Indoor electrical equipment will have a minimum IP22 rating
 - f. The deck equipment VFD, or drive, panels will have a minimum IP44 rating
- 1) A stern A-Frame with the following features:
- a. Capability:
 - i. Safe Working Load 5000kg
 - ii. Movement aft, reach a minimum of 3 m past stern of vessel
 - iii. Time from outboard to inboard, maximum of 120 seconds
 - b. Dimensions:
 - i. Distance between legs, minimum of 4.4 metres
 - c. Articulated to allow for sheave access from the main deck to allow operator access without assistance (ex. ladder)
 - i. Guideline height above deck to block approximately 1.5m
 - d. One (1) General Purpose Winch mounted centerline on the crossbeam:
 - i. Capability:
 1. minimum pull of 1902kg at 350m wire out
 2. minimum of 1100m of 10mm nominal diameter (7X19), 304 stainless steel wire
 3. minimum bare drum speed of 1m/s
 - ii. Lebus grooved shells
 - iii. Level wind
 - iv. One (1) automatic brake
 - v. One (1) emergency fail-safe brake
 - e. One (1) A-Frame Winch mounted centerline on the crossbeam:
 - i. Capability:
 1. Minimum full drum pull of 3000kg

2. Minimum of 40m of 10mm nominal diameter 7x19 304 stainless steel wire
 - ii. One (1) automatic brake
 - iii. One (1) emergency fail-safe brake
 - f. One (1) removable Net-Drum mounted between the A-Frame legs:
 - i. Capability:
 1. minimum bare drum pull of 2500kg and a bare drum speed of 10m/minute
 2. minimum of 10m of 19mm nominal diameter 6x19 (IWRC) XXIP Core Compacted Galvanized Steel Wire on the inboard side of the flanges to allow the net drum to deploy and recover the nets
 3. wire must be under spooled
 - ii. Dimensions:
 1. lowest part of the Net Drum is a minimum of 2m above the Main Deck
 2. dimensions shown in Drawing NSFRV 28-603-1B Working Deck Arrangement
 3. outboard flanges must be protected with DN40 galvanized steel pipe located 25.4mm above each flange and 25.4mm inboard of each flange
 - iii. One (1) automatic brake
 - iv. One (1) emergency fail-safe brake
 - g. Four (4) block attachment points, two (2) of which are supplied with removable blocks
 - i. two (2) attachment points are to be located either side of centerline on the crossbeam
 - ii. two (2) attachment points, fitted with the removable blocks, are to be fitted at the forward and aft most positions on the tee-beam
 - h. Floodlights (2x 500W) to illuminate the water in the extended position over the stern
- 2) Two (2) Trawl Winches each with the following features:
 - a. Capability:
 - i. minimum pull of 5197kg at 385m wire out
 - ii. minimum pull of 1528kg at 1100m wire out
 - iii. minimum of 1300 m of 16 mm (5/8 inch) nominal diameter 6 x 19 (S) PC galvanized steel wire
 - iv. port side Trawl Winch must be fitted with a right handed cable lay, overwind
 - v. starboard side Trawl Winch must be fitted with a left handed cable lay, overwind.
 - vi. line speed for each Trawl Winch must be capable of being continuously varied by the operator.
 - vii. line speed to vary from 0 to 100 m/min during deployment of the trawl net and 0 to 60 m/min during recovery of the trawl net.
 - viii. capable of towing the nets specified in Appendix 2 under the provided conditions.
 - b. Dimensions:
 - i. winch, including maintenance envelope, should fit in an area 2400mm fore-aft x 1800mm athwartship
 - c. One (1) automatic brake
 - d. One (1) emergency fail-safe brake
- 3) One (1) Crane with the following features:
 - a. Capability:
 - i. 1500kg at 10.75m in harbour conditions
 - ii. 1500kg at 6.74m in Sea State 4
 - iii. 450kg at 9.50m in Sea State 4
 - iv. slewing angle, 360 degrees continuous

NSFRV RFID – Deck Equipment
F7013-200032

- v. winch hoisting speed, minimum 35m/minute
 - vi. winch must be equipped with a minimum of 50m of anti-twist galvanized steel wire
 - b. must be capable of being operated from:
 - i. one (1) fixed control console on the 01 Deck Level, location to be determined by the Owner and
 - ii. one (1) wire-less walk around controller
 - c. fitted at each control position with a load monitoring system complete with indicator lights and alarms to notify the operator of the hook load in relation to the crane safe working load for all positions of operation
 - d. Knuckle type
- 4) One (1) Conductivity Temperature Depth (CTD) Winch with the following features:
 - a. Capability:
 - i. 1010kg at 525m wire out
 - ii. minimum bare drum speed 1m/s
 - iii. minimum of 900m of 7mm nominal diameter 7x19 304 stainless steel wire
 - b. Lebus grooved shells
 - c. Level wind
 - d. One (1) automatic brake
 - e. One (1) fail safe brake
- 5) One (1) Side J-frame with the following features:
 - a. Capability:
 - i. Safe Working Load 1400kg
 - ii. Side load 300kg in the cast position
 - iii. deploy and recover science packages a minimum of 1.5 m past the starboard side of the vessel when in the cast position
 - iv. travel speed of approximately 30 seconds from the inboard stowed position to the maximum outboard cast position
 - v. Articulated to allow for sheave access from the main deck to allow operator access without assistance (ex. ladder)
 - 1. guideline height above deck to block approximately 1.5m
 - vi. One (1) block attachment point, supplied with removable block
 - b. Dimensions:
 - i. distance from leg to sheave, sufficient to deploy packages of 2m diameter
 - ii. distance from deck to bottom of sheave, approximately 3.2m
- 6) One (1) Mooring Reel:
 - a. Capability:
 - i. store eight (8) 22mm x 120m lines
 - ii. bare drum pull 150kg
 - iii. speed 0.5m/s
- 7) Two (2) removable Trawl Blocks
- 8) One Pot Hauler, pull of approximately 1200kg
- 9) Sheaves (metering and not metering) to route the winches' cables to the packages to be deployed.

Control Equipment:

- 1) One (1) Control Chair with the following features (Note exact controls and logic is to be developed):
 - a. Displacement track:
 - i. Electric movement (forward to aft, rotation) and position lock
 - ii. Backup manual movement and position lock

NSFRV RFID – Deck Equipment
F7013-200032

- b. Adjustable chair height and arm position
- c. Must be able to integrate the following controls:
 - i. Auto pilot
 - ii. Pilot control/steering wheels
 - iii. Bow thruster control panel
 - iv. CTD joystick
 - v. Fishing control joystick
 - vi. CCTS Joystick
 - vii. Whistle at will push button
 - viii. CTD Control Console with the following features:
 - 1. On/Off switch
 - 2. Emergency stop button
 - 3. CTD J-Frame selector
 - 4. CTD Winch selector
 - ix. Fishing Control Console with the following features:
 - 1. On/Off switch
 - 2. Emergency stop button
 - 3. A-frame General Purpose winch selector
 - 4. A-frame winch selector
 - 5. A-Frame Net Drum selector
 - 6. Two (2) Trawl Winch selectors
 - x. Dredge Pump and Mooring Winch Controls with the following features:
 - 1. Dredge pump On/Off
 - 2. Mooring Winch selector
 - xi. Sound signal reception system
 - xii. Window wiper control panel
 - xiii. Bridge Navigational Watch Alarm System (BNWAS) reset button
 - xiv. Lamp test button
 - xv. Console dimmer
- 2) One (1) HPU control and monitoring console
- 3) HMI 19" display
- 4) Deck equipment electric local controls.

Powering:

- 1) The following deck equipment are envisioned to be electric fed from a DC bus:
 - a. Trawl Winches
 - b. CTD Winch
 - c. A-Frame Winch
 - d. A-Frame General Purpose Winch.
- 2) The following equipment are envisioned to be hydraulic:
 - a. A-Frame
 - b. Net Drum
 - c. Crane
 - d. J-Frame
 - e. Mooring Reel
 - f. Aft Mooring Capstan (supplied in a separate process)
 - g. Anchor Windlass (supplied in another process)
 - h. Hydraulic Dredge Pump (supplied in another process)
 - i. Pot Hauler (supplied in another process).
- 3) Associated electric deck equipment VFDs, or drives, with power regeneration
- 4) Hydraulic system and components:

NSFRV RFID – Deck Equipment
F7013-200032

- a. Scope will not only encompass the deck equipment listed here. The hydraulic system will be used to power other hydraulic equipment on the vessel (ex. Capstan, Anchor Windlass) and therefore will require integration
- b. Directional control valves
- c. Central hydraulic power unit:
 - i. storage tank
 - ii. a minimum of two (2) pump sets

1.7.10 Scope of supply

- 1) One (1) A stern A-Frame
- 2) Two (2) Trawl Winches
- 3) One (1) Crane
- 4) One (1) CTD Winch
- 5) One (1) Side J-frame
- 6) One (1) Mooring Reel
- 7) Two (2) removable Trawl Blocks
- 8) One (1) Pot Hauler
- 9) One (1) removable Davit for use with the Pot Hauler
- 10) Sheaves (metering and not metering) to route the winches' cables to the packages to be deployed.

Control Equipment:

- 11) One (1) Control Chair
- 12) One (1) HPU control and monitoring console
- 13) One (1) HMI 19" display
- 14) Deck equipment electric local controls.

Powering:

- 15) Associated electric deck equipment VFDs, or drives, with power regeneration
- 16) Hydraulic system and components

1.8 Appendix 2 Documents

- 1. GA
- 2. 603 Working Deck Arrangement
- 3. 403 Aft Console Labelled
- 4. 403 Aft Console Item List
- 5. NSFRV Science Gear Information V1-Nov_2018.pdf
- 6. 556 Hydraulic System Diagram
- 7. 556 Hydraulic System Usage Table

PART 2 RESPONDENT INSTRUCTIONS

2.1 Standard Instructions, Clauses and Conditions

- 2.1.1** All instructions, clauses and conditions identified in the RFID – Deck Equipment by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual>) issued by Public Works and Government Services Canada.
- 2.1.2** Respondents who submit a response agree to be bound by the instructions, clauses and conditions of the RFID - Deck Equipment.
- 2.1.3** The 2003 (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements are incorporated by reference into and form part of the RFID - Deck Equipment, except that:
 - a) Wherever the terms “bid” or “Bidder” are used, substitute “response” and “Respondent” respectively;
 - b) Wherever the term “bid solicitation” is used, substitute “RFID - Deck Equipment”;
 - c) Subsections 4 and 5 of section 1 are deleted.

If there is a conflict between the provisions of 2003 and this document, this document prevails.

As indicated in 2003, all responses will be treated as confidential, subject to the provisions of the Access to Information Act (R.S. 1985, c. A-1) and the Privacy Act (R.S., 1985, c. P-21).

2.2 Submission of Responses

- a) Bids must be submitted only to the Public Works and Government Services Canada (PWGSC) Bid Receiving Unit specified below by the date and time indicated on page 1 of the bid solicitation:

Bid Receiving Unit - National Capital Region
Bid Receiving - PWGSC

Only bids submitted using epost Connect service will be accepted. The Bidder must send an e-mail requesting to open an epost Connect conversation to the following address:

E-mail address for epost Connect service:
tpsgc.dgareceptiondessoumissions-abbidreceiving.pwgsc@tpsgc-pwgsc.gc.ca

Note: Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions 2003, or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

Bids transmitted by facsimile, hardcopy or any electronic means (other than the epost Connect service described above) will not be accepted.

- b) Respondents are requested to send an e-mail notification to the Public Services and Procurement Canada (PSPC) Authority prior to the closing date indicating their intention to submit a response.

2.3 Enquiries and Comments

- (a) All enquiries and comments, including suggestions to improve the requirement, regarding the RFID - Deck Equipment must be submitted in writing to the PSPC Authority no later than 5 working days before RFID - Deck Equipment closing.
- (b) Respondents should reference as accurately as possible the section and numbered item of the RFID - Deck Equipment process to which the enquiry relates. Care should be taken by Respondents to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a “proprietary” nature must be clearly marked “proprietary” at each relevant item. Items identified as proprietary will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Respondent do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all Respondents. Enquiries not submitted in a form that can be distributed to all Respondents may not be answered by Canada.

2.4 PSPC Authority

The PSPC Authority for the RFID is:

Stephane Deslauriers, Supply Team Leader
Public Services and Procurement Canada Acquisitions Branch
Directorate: Marine Systems Directorate
Portage III - Étage: 8B3 / Portage III - Floor: 8B3
11, rue Laurier, Gatineau (Québec), K1A 0S5
E-mail address: Stephane.Deslauriers@tpsgc-pwgsc.gc.ca

2.5 Costs Incurred by the Respondents

No payment will be made for costs incurred in the preparation and submission of a response to the RFID - Deck Equipment. Costs associated with preparing and submitting a response, as well as any costs during the other phases of the procurement process for the NSFRV, are the sole responsibility of the Respondent/Bidder.

2.6 Applicable Laws

The relations between the parties will be governed by the laws in force in the Province of Quebec.

A Respondent may, at its discretion, substitute the applicable laws of a Canadian province or territory of its choice without affecting the validity of its response, by inserting the name of the Canadian province or territory of its choice in the RFID - Deck Equipment **Annex B - Form 1 - Submission Form**. If no other province or territory is specified, the Respondent agrees that the laws of Quebec are acceptable to it.

2.7 Language for Future Communications

Respondents are requested to identify, on **Annex B - Form 1 - Submission**, which of Canada's two official languages will be used for future communications with Canada regarding this RFID - Deck Equipment and all subsequent phases of the procurement process.

PART 3 RESPONSE PREPARATION INSTRUCTIONS

3.1 Response Preparation Instructions

The Respondent must submit its bid electronically in accordance with section 08 of the 2003 standard instructions. The Epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The response must be gathered per section and separated as follows:

Section I: Technical Response
Section II: Financial Response

Prices for design support to RAL must appear in the financial response only. No prices must be indicated in any other section of the response.

Canada will evaluate only the documentation provided with a Respondent's proposal. Canada will not evaluate technical manuals or brochures that are not submitted with the response, or any information provided by reference (e.g. Web sites). “

3.2 Section I: Technical Response

In their technical response, Respondents should demonstrate their understanding of the requirements contained in this RFID and explain how they will meet these requirements. Respondents should demonstrate their capability of meeting the mandatory and point rated criteria described in Annex A in a thorough, concise and clear manner for carrying out the work for the design of the Deck Equipment System.

The technical response should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the response will be evaluated. Simply repeating the statement contained in the RFID is not sufficient. In order to facilitate the evaluation of the response, Canada requests that Respondents address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, Respondents may refer to different sections of their responses by identifying the specific paragraph and page number where the subject topic has already been addressed. A complete Technical response consists of the following:

- a) **Annex B - Form 1 - Submission Form (Requested at RFID - Deck Equipment Closing)**
Respondents must include the Submission Form with their responses. It provides a common form in which Respondents can provide information required for evaluation, such as a contact name, the Respondent's Procurement Business Number etc. If the Form is not completed and submitted as requested, the PSPC Authority will inform the Respondent of a timeframe within which to provide the information. Failure to provide the additional information requested within the timeframe specified will render the response non-compliant.
- b) A response to all of the Evaluation Criteria Identified in **Annex A – Response Evaluation Score Sheet** and
- c) As required in Section 4.2.2, a list of subcontractors together with all required information or a statement that no subcontractors will be used.

3.3 Section II: Financial Response

Respondents must submit their financial response in accordance with section 4.4 Financial Responses.

PART 4 EVALUATION PROCEDURES AND BASIS OF QUALIFICATION

4.1 Evaluation Procedures

- 4.1.1** Responses will be assessed in accordance with the entire requirement of the RFID - Deck Equipment including all the mandatory and point-rated criteria identified in Annex "A"- Response Evaluation Score Sheet.
- 4.1.2** An evaluation team composed of representatives of Canada will evaluate the responses. Canada may hire any independent consultant, or use any Government resources, to evaluate any response. Not all members of the evaluation team will necessarily participate in all aspects of the evaluation.
- 4.1.3** In addition to any other time periods established in the RFID - Deck Equipment:
 - a) **Requests for Clarifications:** If Canada seeks clarification or verification from the Respondent about its response, the Respondent will have 2 working days (or a longer period if specified in writing by the PSPC Authority) to provide the necessary information to Canada. Failure to meet this deadline will result in the response being declared non-compliant.
 - b) **Extension of Time:** If additional time is required by the Respondent to respond to a request for clarification, the PSPC Authority may grant an extension in his or her sole discretion.

4.2 Technical Evaluation - Mandatory Technical Criteria

Each response will be reviewed to determine whether it meets the mandatory requirements of the RFID - Deck Equipment. Any element of the RFID - Deck Equipment identified with the words "must" or "mandatory" is a mandatory requirement. Responses that do not comply with each and every mandatory requirement will be declared non-compliant and will be disqualified.

- 4.2.1** Respondents must submit, with their Response on the RFID - Deck Equipment closing date, the information required by **Annex A – Response Evaluation Score Sheet**.
- 4.2.2 List of Subcontractors:** The Respondent must provide a list of any proposed subcontractors that could be used to perform any part of the work (including subcontractors affiliated or otherwise related to the Respondent). The list must state the name and address of each subcontractor, and a description of the work to be performed by the subcontractor.

If no subcontracts will be used, it must be clearly stated in the response.

4.3 Basis of Identification

Following the RFID - Deck Equipment closing for the NSFRV Deck Equipment Single System Integrator (SSI), a phased evaluation and selection process will be initiated. Subject to the requirements for clarification and proof and/or confirmation, responses will be required to meet the minimum requirements associated with a phase, or step, in the process. There are four phases in the evaluation process, which are described below.

The Evaluation and Selection Process phases are as follows:

- Phase 1 – Confirmation of Compliance with all Mandatory Technical Criteria
- Phase 2 – Evaluation of Rated Technical Criteria
- Phase 3 – Evaluation of Financial Responses
- Phase 4 – Identified Respondent List and Ranking

The technical proposals will be evaluated and scored in accordance with the scoring criteria described in the Response Evaluation Score Sheet attached as Annex A to this RFID - Deck Equipment.

Phase 1 – Confirmation of Compliance with Mandatory Technical Criteria

To be declared compliant, a response must:

- a) Comply with all the requirements of the RFID - Deck Equipment;
- b) Meet all the Mandatory Technical Criteria (MTC);

Responses not meeting (a) and (b) will be declared non-compliant. Non-compliant responses will be given no further consideration.

Phase 2 – Evaluation of Rated Technical Criteria

The total Rated Technical Criteria score for each Respondent will be the cumulative points scored for all items (1-5) of the Rated Technical Criteria. One hundred and sixty three points (163) are available for the Rated Technical Criteria score as described in Annex A - Response Evaluation Score Sheet.

The minimum pass mark for the Rated Technical Criteria portion of the evaluation is 100 out of a possible 163. Responses that do not meet the minimum pass mark will be deemed non-compliant and will not be subject to further evaluation.

Responses should address, in writing, all of the requirements to earn points as detailed in Annex A – Response Evaluation Score Sheet. It is the Respondent's responsibility to ensure the information provided is complete, precise and clearly demonstrates the Respondent's qualifications in each category.

Responses must follow the scoring criteria information for each requirement provided in Annex A - Response Evaluation Score Sheet.

Phase 3 – Evaluation of Financial Responses

The financial responses of those Respondents who are technically compliant, having passed both Phase 1 and Phase 2, will be evaluated with respect to the requirements as described in the RFID - Deck Equipment. The total assessed price for Respondent is the Blended Hourly Rate (BHR) identified in Section 4.4 of the RFID times 200 hours.

Phase 4 – Identified Respondent List and Ranking (RFID – Deck Equipment SSI List)

A Respondent whose response has been declared compliant is an Identified Respondent and will be placed on the list of Identified Respondents (RFID List – Deck Equipment) in order of ranking from highest to lowest Best Value Score (as defined below). The Identified Respondent with the highest Best Value Score will be recommended to work with RAL.

In the event that two or more Identified Respondents have the same highest combined rating of technical merit and price, the following process applies until the tie is broken to determine placement on the RFID List – Deck Equipment:

1. Identified Respondent with the highest points for the RTC – System Support in Annex A – Response Evaluation Score Sheet will be deemed higher by one (1) point for purposes of position on the RFID List - Deck Equipment;
2. Identified Respondent with the highest points for RTC - Experience with Deck Equipment in Annex A – Response Evaluation Score Sheet will be deemed higher by one (1) point for purposes of position on the RFID List – Deck Equipment;
3. Identified Respondent with the highest points for RTC - System Design (SD) in Annex A – Response Evaluation Score Sheet will be deemed higher by one (1) point for purposes of position on the RFID List - Deck Equipment;

4. Identified Respondent with the highest points for RTC –Technological Innovations (TI) in Annex A – Response Evaluation Score Sheet will be deemed higher by one (1) point for purposes of position on the RFID List - Deck Equipment;

If there is still a tie between two or more Identified Respondents after the processes in paragraphs 1 through 4 are exhausted, then a “coin toss” method will be used to determine the highest ranked Identified Respondent, in accordance with Annex D– Coin Toss Agreement. Canada will request that each Identified Respondent fill out the Coin Toss Agreement in Annex D. Failure to fill out the Coin Toss Agreement in Annex D as and when requested by Canada will render the response non-complaint.

RAL and the recommended Respondent will have ten (10) business days to reach an agreement. If RAL and the SSI cannot agree after the 10 business days, Canada will provide RAL with the name of the Identified Respondent who ranks second on the RFID List - Deck Equipment. This process will be repeated sequentially until an agreement is made between RAL and an Identified Respondent. Once the RFID List - Deck Equipment is exhausted, the list will be declared void and a new RFID process may be started.

The PSPC Authority will notify Identified Respondents by email of their results after the RFID - Deck Equipment process is completed and RAL has entered into a contract with a respondent. Identified Respondents who remain on the list may request a debriefing. The Identified Respondents should make the request to the PSPC Authority within 10 business days from receipt of the results of the RFID- Deck Equipment process. Debriefing may be in writing, by telephone or in person. The PSPC Authority will determine which method will be the most effective.

The Best Value Score will be determined by using the following formula subject to the following weighting factors:

- i. Technical Weighting Factor (Phase 2 score) = 70
- ii. Price Weighting Factor (Phase 3 score) = 30

$$\text{Best Value Score} = \frac{(TP_n \times P_{wf})}{TP} \times \frac{LPP}{P_n} + \frac{(TP_n \times T_{wf})}{TP}$$

Where:

TP_n = Total Technical Points Acquired by Respondent n

TP = Total Available Weighted Technical Points (163)

P_{wf} = Price Weighting Factor (30)

LPP = Lowest Total Assessed Response Price of all Compliant Responses

P_n = Total Assessed Price for Respondent n

T_{wf} = Technical Weighting Factor (70)

EXAMPLE ONLY:

The table below illustrates an example where two of the three responses are compliant and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively. The total available points equals 163 and the lowest evaluated price is \$30,000 (\$150 X 200).

The selection will be based on the Best Value Score combined rating of technical merit and price. The ratio will be 70 % for the technical merit and 30% for the price.

	Respondent 1	Respondent 2	Respondent 3
Overall Technical Score	155/163	145/163	92/163
Response Evaluated Price	\$50,000.00	\$30,000.00	
Rated Technical Criteria Score	$155/163 \times 70 = 66.56$	$145/163 \times 70 = 62.27$	
Pricing Score	$155/163 \times 30 \times 30/50 = 17.12$	$145/163 \times 30 \times 30/30 = 26.69$	
Best Value Score	$66.56 + 17.12 = 83.68$	$62.27 + 26.69 = 88.96$	
Overall Rating	2nd	1st	Price not evaluated and not ranked as does not meet the minimum points and is non-compliant

The methodology that will be used to calculate the Best Value Score will be rounding up of the second decimal point. If the third decimal is a 5 or greater the second decimal number will be increased by 1. Example: 41.0567 = 41.06.

4.4 Financial Responses

The blended hourly rate submitted to Canada as part of this RFID is expected to form the basis of the rates RAL charges Canada for the SSI's portion of the design work on the deck equipment system design through a task authorization. The task authorization must be finalized before any work by RAL or its sub-contractor. The Task Authorization Process between Canada and RAL is identified in RAL's Terms and Conditions at Annex C.

The Respondent is to provide its blended rate for the current Government of Canada fiscal year (2020-2021) ending on March 31.

4.4.1 Respondent Blended Hourly Rates (BHR)

For the purpose of this Response Evaluation, the price shall be the total price for the design services for the deck equipment system as calculated below.

Please indicate your proposed BHR and total price below:

Category	Number of # Hours	Blended Hourly Rate (BHR)
Design Services	200	\$
	Total (200 X BHR)	\$

Note 1: The Respondent must support its proposed BHR with an invoice or other similar document showing the various rates charged when averaged equal the BHR to an actual customer of the Respondent within the last 12 months of RFID – Deck Equipment closing date. If the documentation is not provided as part of the financial response at RFID - Deck Equipment closing, the score for the financial portion will be zero (0)%.

NSFRV RFID – Deck Equipment
F7013-200032

Note 2: The 200 hours is for calculation and evaluation purposes only. The actual amount of hours will be determined with RAL and submitted to Canada through a task authorization for approval before the work can start.

ANNEX A

Response Evaluation Score Sheet

(see document at the end)

ANNEX B

FORM 1 - SUBMISSION FORM

FORM 1 – SUBMISSIONFORM		
Respondent full legal name		
Authorized Representative of Respondent for evaluation purposes (e.g. clarifications)	Name:	
	Title:	
	Address:	
	Telephone #:	
	Email:	
Procurement Business Number:		
Canada's Official Language in which the Respondent will communicate with Canada during any subsequent process - indicate either English or French		
Applicable Laws (the Respondent may insert the Canadian province or territory of its choice; otherwise, the laws in force in the Province of Quebec will apply)		
<p>As the authorized representative of the Respondent, by signing below, I confirm that I have read and understood the entire RFID - Deck Equipment including the documents incorporated by reference into the RFID - Deck Equipment and the entire Response, and I certify that:</p> <ol style="list-style-type: none"> 1. The Respondent meets all the mandatory requirements described in the RFID - Deck Equipment; and 2. All the information provided in the RFID - Deck Equipment response is complete, true and accurate. 		
Signature of the authorized representative of the Respondent	Name	
	Address	
	Email	
	Signature	
	Phone	

ANNEX C

- 1. Concept of Operations and Mission Profiles (provided for contextual information only)**
- 2. Design Drawings**
- 3. Robert Allan Ltd Design Contract Terms and Conditions**

This package is available upon request only by email to the PSPC Authority.

ANNEX D
Coin Toss Agreement

THIS AGREEMENT made this [insert day] day of [insert month] , 2020 by and between

[insert full legal name] (“Respondent 1”)

and

[insert full legal name] (“Respondent 2”)

and

Her Majesty the Queen in Right of Canada, as represented by the Minister of Public Works and Government Services ("Canada").

WHEREAS, both Respondents submitted responses to the RFID – Deck Equipment under the RFID Process.

AND WHEREAS, the scores of both Respondents were identical pursuant to the Basis of Selection.

NOW THEREFORE, in consideration of the payment of the sum of one dollar (\$1.00) to the Respondents by Canada, the receipt and sufficiency of which is hereby acknowledged, Respondent 1 and Respondent 2 and Canada hereby covenant and agree as follows:

1. The determination of which of Respondent 1 or Respondent 2 will be ranked first on the list of qualified SSIs for the RFID – Deck Equipment will be by way of a single coin toss (the "Coin Toss").
2. Mr. [or Mrs.] [insert full name] , [job title], employed with Public Works and Government Services Canada (PWGSC), will execute the Coin Toss. In the event that [insert full name] is unable or otherwise unavailable to execute the Coin Toss, Mr. [or Mrs.] [insert full name] ,[job title], employed with Public Works and Government Services Canada (PWGSC), will execute the Coin Toss.
3. The Coin Toss will be conducted as follows: a coin will be thrown into the air such that it rotates edge-over-edge several times. The coin may be caught; caught and inverted; or allowed to land on the ground. When the coin comes to rest, the toss is complete.
4. If the result of the Coin Toss is heads, the response which listed Respondent 1 as supplier will be ranked first on the SSI - List and if the result of the Coin Toss is tails, the response which listed Respondent 2 as supplier will be ranked first on the SSI - List.

5. Respondent 1 and Respondent 2 hereby release Canada from any and all claims arising from or relating to the Coin Toss and any subsequent contract negotiations with RAL. Respondent 1 and Respondent 2 will indemnify Canada against any and all claims which Respondent 1 and Respondent 2 or anyone else may make arising out of or connected in any way with the Coin Toss and any subsequent contract negotiations with RAL.

IN WITNESS WHEREOF, Respondent 1 and Respondent 2 and Canada hereto have caused this agreement to be executed by their duly authorized representatives as of this [insert day] day of [insert month], 2020.

**HER MAJESTY THE QUEEN in Right of
Canada, as represented by the Minister of
Public Works and Government Services**

Per: _____

Name:

Title:

RESPONDENT 1

Per: _____

Name:

Title:

I/We have the authority to bind the Corporation

RESPONDENT 2

Per: _____

Name:

Title:

I/We have the authority to bind the Corporation

Phase 1 - Mandatory Technical Criteria

Criteria #	Technical Mandatory - Description	PASS/FAIL
TM 1	The Respondent must provide a concept* drawing package* that fits into the allotted space as per the CCG reference drawings and includes all items identified for the deck equipment SSI system scope as defined in Section 1.7.10 of the RFID - Deck Equipment.	P/F
TM 2	The Respondent must provide a list of equipment for all items identified in the Deck Equipment SSI system scope as defined in Section 1.7.10 of the RFID - Deck Equipment.	P/F
TM 3	The Respondent must provide proof of experience with design, manufacture, integration and commission of one (1) deck equipment package (can be defined as equipment used to deploy packages and/or lift/move equipment around the deck) including at least 3 pieces of deck equipment as defined in Section 1.7.10 on a vessel that entered into service in the 5 years prior to the RFID - Deck Equipment response closing date.	P/F

Concept for the purpose of the response is defined as a high level representation showing the Respondent proposes equipment that fits into the allotted space in the 603 "Working Deck Arrangement" drawing and 403 "Aft Console Labelled" drawings of the current vessel as per Annex C of the RFID - Deck Equipment. Where an existing piece of equipment will have to be customized/scaled for the vessel, it is not anticipated that the Respondent will have done the engineering since the solution is only required to be representative at this point. The piece of equipment to be customized/scaled version should be included in the drawings to show a potential final solution for scaled equipment that does fit in the design. or to show areas requiring customization. Rated criteria 30.1 contains requirements for describing the extent of customization.

****Drawing package*** for the purposes of the response refers to both an updated 603 "Working Deck Arrangement" drawing and 403 "Aft Console Labelled" drawing. The Respondent may revise any other drawings included in Annex C of the RFID - Deck Equipment as needed to demonstrate their proposed solution.

For TM 3, the Respondent should provide the following details about the project:

1. The name of the client / representative including the following contact details to validate the information in the response:
 - a) Name of client or representative
 - b) Title/Role in the project/contract
 - c) Phone number and
 - d) E-mail address
2. The total duration on the project.
3. The start and end dates of each project/contract in the following format: MONTH (MM) AND YEAR (YYYY).
4. The date the vessel went into service in the same format as above.
5. Details about the work performed for each project/contract.

And most importantly, the Respondent must provide evidence of successful installation, such as copies of bills of sale or regulatory documentation.
Note: Respondents may redact backend confidential or proprietary information from documentation. However, the onus remains on the Respondent to demonstrate through the provided documentation that it was the Contractor for the work and the work was completed to the level defined in the specific criteria.

Criteria #	Fail	Pass
TM 1	The Respondent does not provide a concept* drawing package* or provides drawings that do not include all items identified in the system scope for the Deck Equipment SSI system scope as defined in Section 1.7.10 of the RFID - Deck Equipment. If an item or items in the system scope do not fit into the allotted space as per the CCG reference drawings.	The Respondent provides a concept* drawing package* that fits into the allotted space as per the CCG reference drawings and includes all items identified for the deck equipment SSI system scope as defined in Section 1.7.10 of the RFID - Deck Equipment.

Criteria #	Fail	Pass
TM 2	The Respondent does not provide a list of equipment for all items identified in the Deck Equipment SSI system scope as defined in Section 1.7.10 of the RFID - Deck Equipment. If the list of equipment is incomplete list for all items defined in Section 1.7.10 of the RFID - Deck Equipment.	The Respondent provides a list of equipment for all items identified in the Deck Equipment SSI system scope as defined in Section 1.7.10 of the RFID - Deck Equipment.

Criteria #	Fail	Pass
TM 3	The Respondent does not provide proof of experience or provides incomplete proof of experience of the design, manufacture, integration and commission of one (1) deck equipment package (can be defined as equipment used to deploy packages and/or lift/move equipment around the deck) including at least 3 pieces of deck equipment as defined in Section 1.7.10 on a vessel in the 5 years prior to the RFID - Deck Equipment response closing date.	The Respondent provides proof of experience with design, manufacture, integration and commission of one (1) deck equipment package (can be defined as equipment used to deploy packages and/or lift/move equipment around the deck) including at least 3 pieces of deck equipment as defined in Section 1.7.10 on a vessel that entered into service in the 5 years prior to the RFID - Deck Equipment response closing date.

Phase 2 - Rated Technical Criteria, Item 1 - Experience with Deck Equipment

Criteria #	Rated Technical Criteria		Maximum Points Available
	Item 1 - Experience with Deck Equipment		
EX 1	The Respondent has experience engineering and delivered* at least one deck equipment package consisting of all four of : 1) a crane, 2) A-frame, 3) a metered winch, and 4) J- frame in the 60 months prior to the RFID - Deck Equipment response closing date.		/20
EX 2	The Respondent has experience engineering and delivered* one vessel with a control chair and integrating system controls from other system suppliers in the 60 months prior to the RFID - Deck Equipment response closing date.		/12
EX 3	The Respondent has delivered* one vessel with both electric and hydraulically powered deck equipment and that uses regenerative power on a single vessel in the 60 months prior to the RFID - Deck Equipment response closing date.		/12
EX 4	The Respondent has delivered* the specified items in the system scope as per Section 1.7.10 of the RFID - Deck Equipment on a previous procurement where the vessel has entered into service in the 60 months prior to the RFID - Deck Equipment response closing date.		/18
Maximum Potential Score			/62

"Delivered" means that the Respondent did the design/engineering work and integrated the equipment for a vessel/vessels that went into service. **Note** that the defined dates refer to the period when the vessel entered into service and the design/engineering work may have preceded that time frame.

For each project/contract relied upon to demonstrate experience, the Respondent should provide the following details:

1. The name of the client / representative including the following contact details to validate the information in the response:
 - a) Name of client or representative
 - b) Title/Role in the project/contract
 - c) Phone number and
 - d) E-mail address
 2. The total duration on the project.
 3. The start and end dates of each project/contract in the following format: MONTH (MM) AND YEAR (YYYY).
 4. The date the vessel went into service in the same format as above.
 5. Details about the work performed for each project/contract. And most importantly:
 6. Proof of delivery or installation, such as copies of bills of sale or regulatory documentation.
- Note:** Respondents may redact/blackout confidential or proprietary information from documentation. However, the onus remains on the Respondent to demonstrate through the provided documentation that it was the Contractor for the work and the work was completed to the level defined in the specific criteria.

Criteria - Experience with Deck Equipment					
Criteria #	0	5	10	15	20
EX 1	The Respondent does not have experience engineering and delivered at least one deck equipment package consisting of one of : 1) a crane, 2) A-frame, 3) a metered winch, and 4) J- frame in the 60 months prior to the RFID - Deck Equipment response closing date.	The Respondent has experience engineering and delivered at least one deck equipment package consisting of one of : 1) a crane, 2) A-frame, 3) a metered winch, and 4) J- frame in the 60 months prior to the RFID - Deck Equipment response closing date.	The Respondent has experience engineering and delivered at least one deck equipment package consisting of two of : 1) a crane, 2) A-frame, 3) a metered winch, and 4) J- frame in the 60 months prior to the RFID - Deck Equipment response closing date.	The Respondent has experience engineering and delivered at least one deck equipment package consisting of three of : 1) a crane, 2) A-frame, 3) a metered winch, and 4) J- frame in the 60 months prior to the RFID - Deck Equipment response closing date.	The Respondent has experience engineering and delivered at least one deck equipment package consisting of all four of : 1) a crane, 2) A-frame, 3) a metered winch, and 4) J- frame in the 60 months prior to the RFID - Deck Equipment response closing date.
Criteria #	0	4	8	12	
EX 2	The Respondent does not have or does not demonstrate experience engineering and delivered at least one vessel with a control chair in the 120 months prior to the RFID - Deck Equipment response closing date.	The Respondent has experience engineering and delivered at least one vessel with a control chair system in the 120-61 months prior to the RFID - Deck Equipment response closing date.	The Respondent has experience engineering and delivered at least one vessel with a control chair in the 60 months prior to the RFID - Deck Equipment response closing date.	The Respondent has experience engineering and delivered one vessel with a control chair and integrating system controls from other system suppliers in the 60 months prior to the RFID - Deck Equipment response closing date.	
Criteria #	0	4	8	12	
EX 3	The Respondent has not delivered at least one vessel with electrically or hydraulically power deck equipment in the 60 months prior to the RFID - Deck Equipment response closing date.	The Respondent has delivered at least one vessel with either electric or hydraulically powered deck equipment in the 60 months prior to the RFID - Deck Equipment response closing date.	The Respondent has delivered one vessel with both electric and hydraulically powered deck equipment on a single vessel in the 60 months prior to the RFID - Deck Equipment response closing date.	The Respondent has delivered one vessel with both electric and hydraulically powered deck equipment and that uses regenerative power on a single vessel in the 60 months prior to the RFID - Deck Equipment response closing date.	
Criteria #					
The Respondent has delivered the specified items in the system scope as per Section 1.7.10 of the RFID - Deck Equipment on a previous procurement where the vessel has entered into service in the 60 months prior to the RFID - Deck Equipment response closing date.					
Source of previous experience with system scope: For each item of equipment, the Respondent must provide the name of the vessel/project, and proof that the Respondent both designed and supplied and integrated the equipment for the vessel. The equipment list for the previous project(s) does not need to be of the same make and model as that recommended for the new NSFRV.					
6	One (1) Mooring Reel	/2			

EX 4	7	Two (2) removable Trawl Blocks	/2
	8	One (1) Pot Hauler	/2
	9	One (1) removable Davit for use with the Pot Hauler	/2
	10	Sheaves (metering and not metering) to route the winches' cables to the packages to be deployed.	/2
	12	Control Equipment	/2
	12	One (1) HPU control and monitoring console	/2
	13	One (1) HMI 19" display	/2
	14	Deck equipment electric local controls.	/2
		Powering:	
	16	Hydraulic system and components	/2
			/18

Phase 2 - Rated Technical Criteria, Item 2 - System Design

Respondents should provide a single report which responds to all System Design (SD) criteria. SD1 (System Design rationale) comprises the main body of the document and is Section 1. SD2 (Drawing Package) should be collated as Section 2. SD3 (System Costing) should be collated and added to the document as Section 3.

Category	Item	Major Performance Indicators	Measurement Period
S01	System Design Rationale: The Requestor provides a complete report addressing A) the business problem being addressed, for validation and testing equipment B) using information for the Requestor's current equipment, and C) the Requestor's proposed equipment, and D) potential equipment alternatives.	75%	(10)
	Timing Package: The Requestor provides a complete "timing package" for the proposed design equipment that includes all items within the system scope as per Section 1.1(c) of the Request Document. The Requestor's timing package defines when and how long the equipment will be used, and how long the equipment will be used, and how long the equipment will be used.	(20)	
S02	System Costing: The Requestor provides costing information for the proposed equipment and any alternate solution(s) identified.	75%	(10)

"Concept": For the purpose of the response, a high level representation showing the Respondent proposes equipment that fits into the allotted space in the Working Deck Arrangement, and AR Console Labelled drawings of the current vessel. Where an existing piece of equipment will have to be customized/adapted for the vessel, it is not anticipated that the Respondent will have done the engineering since the solution is only required to be representative at this point. The piece of equipment to be customized/adapted should be indicated in the drawings to show a potential final solution for a solution that does fit in the design, or to show areas requiring customization. Raised criteria SD 1 contains requirements for describing the extent of customization.

*** **"Drawing package"** for the purposes of the response refers to both an updated 803 "Alt Console Labeled" drawing and 403 "Alt Console Labeled" drawing, as a minimum. The Respondent may revise any other drawings included in Annex C of the RFD as needed to demonstrate their proposed solution.

[illegible][illegible]

<p>grain coating The <i>Resincoat</i> products are <i>water-borne</i> and <i>lead</i> resistant. <i>Waterborne</i> for E13, coating is applied to concrete from a plastic or enamel of the Resincoat.</p>			
<p>Coarse #</p>	<p>Coarse # of epoxy Resincoat List by Type</p>	<p>Coarse # of Resincoat</p>	<p>Coarse # of Resincoat</p>
<p>E13</p>	1	Coarse #1 (E13) - 1/2" (1/2")	1/2"
	2	Coarse #2 (E13) - 1/4" (1/4")	1/4"
	3	Coarse #3 (E13) - 1/8" (1/8")	1/8"
	4	Coarse #4 (E13) - 1/16" (1/16")	1/16"
	5	Coarse #5 (E13) - 1/32" (1/32")	1/32"
	6	Coarse #6 (E13) - 1/64" (1/64")	1/64"
	7	Coarse #7 (E13) - 1/128" (1/128")	1/128"
	8	Coarse #8 (E13) - 1/256" (1/256")	1/256"
	9	Coarse #9 (E13) - 1/512" (1/512")	1/512"
	10	Coarse #10 (E13) - 1/1024" (1/1024")	1/1024"
	11	Coarse #11 (E13) - 1/2048" (1/2048")	1/2048"
	12	Coarse #12 (E13) - 1/4096" (1/4096")	1/4096"
	13	Coarse #13 (E13) - 1/8192" (1/8192")	1/8192"
	14	Coarse #14 (E13) - 1/16384" (1/16384")	1/16384"
<p>E14</p>	15	Coarse #15 (E14) - 1/2" (1/2")	1/2"
	16	Coarse #16 (E14) - 1/4" (1/4")	1/4"
	17	Coarse #17 (E14) - 1/8" (1/8")	1/8"
	18	Coarse #18 (E14) - 1/16" (1/16")	1/16"

Phase 2 - Rated Technical Criteria, Item 3 - System Support

Rated Technical Criteria		Maximum Points Available
Criteria #	Item 3 - System Support	/10
SUPP 1	Field Service Representatives: Part A: The Respondent currently has a FSRs that can be available to Sorel, Quebec within 24 hours of receiving a request to support its deck equipments systems. Part B: In addition to the criteria in the Note above, the Respondent provides proof with its marketing materials that ongoing field support is part of its standard business. Both Part A and Part B are required to earn full points.	5
SUPP 2	Training Services: Part A: The Respondent has a training services team or branch within their organization that currently provides training services. Part B: In addition to the criteria in the Note above, the Respondent provides proof with its marketing materials that training is part of its standard business and it has personnel in place to deliver training. Both Part A and Part B are required to earn full points.	5
Maximum Potential Score		10

*Currently - is defined as providing the service prior to the RFID - Deck Equipment response closing date.

Note: To demonstrate Part A of each criteria, the Respondent should provide the following details:

1. The name of the client / representative including the following contact details to validate the information in the response:
 - a) Name of client or representative
 - b) Title/Role in the project/contract
 - c) Phone number and
 - d) E-mail address
2. The start and end date of the project/contract in the following format: MONTH (MM) AND YEAR (YYYY).
3. Details about the service performed during the project/contract. Specifically, Respondent must demonstrate SUPP 1, and SUPP2.

Category - Supportability		
Criteria #	0	5
SUPP 1	The Respondent does not demonstrate Part A and/or Part B.	Part A: The Respondent currently has a FSRs that can be available to Sorel, Quebec within 24 hours of receiving a request to support its deck equipments systems. Part B: In addition to the criteria in the Note above, the Respondent provides proof with its marketing materials that ongoing field support is part of its standard business. Both Part A and Part B are required to earn full points.
Criteria #	0	5
SUPP 2	The Respondent does not demonstrate Part A and/or Part B.	Part A: The Respondent has a training services team or branch within their organization that currently provides training services. Part B: In addition to the criteria in the Note above, the Respondent provides proof with its marketing materials that training is part of its standard business and it has personnel in place to deliver training. Both Part A and Part B are required to earn full points.

Phase 2 - Rated Technical Criteria, Item 4 - Technological Innovations

Criteria #	Rated Technical Criteria		Maximum Points Available
Criteria #	Item 4 - Technological Innovations		/10
TI 1	The Respondent's innovation proposal describes and illustrates through drawings, pictures and narrative one (1) innovative solution that is aligned with the deck equipment and provides some enhancement to the safety, fuel consumption, emission standing or operations of the vessel. In addition, the Respondent innovation proposal includes A) costing and B) the source of the costing information (ex. price list or scaled pricing based on a previous sale) . Both A) and B) are required to earn full points.		/5
TI 2	The Respondent's innovation proposal describes and illustrates through drawings, pictures and narrative a second innovative solution that is aligned with the deck equipment and provides some enhancement to the safety, fuel consumption, emission standing or operations of the vessel. In addition, The Respondent's innovation proposal includes A) costing and B) the source of the costing information (ex. price list or scaled pricing based on a previous sale) . Both A) and B) are required to earn full points.		/5
Innovations must be related to the deck equipment. Innovations must be technologies the Respondent provides that have successfully entered into service on other projects/vessels in recent years. Research and development options will not be given consideration.			Maximum Points Available /10

Innovations must be related to the deck equipment. Innovations must be technologies the Respondent provides that have successfully entered into service on other projects/vessels in recent years. Research and development options will not be given consideration.

Innovations for the deck equipment are those that provide some enhancement to the safety, ease of use, supportability, space, weight, noise signature, 'greening' or operations of the vessel. Innovations may be in the form of additional pieces of equipment not defined in the scope of supply or may be items that supplement a piece of equipment that is defined in the scope of supply but to a different specification. All proposed items must fit into the NSFRV design.

Criteria #	Criteria - Innovation Proposal		
TI 1	The Respondent does not provide a technological innovation for the deck equipment or does not provide sufficient information on the specifications of the innovation.	0	/5
		The Respondent's innovation proposal describes and illustrates through drawings, pictures and narrative one (1) innovative solution that is aligned with the deck equipment and provides some enhancement to the safety, fuel consumption, emission standing or operations of the vessel.	
		The Respondent's innovation proposal includes A) costing and B) the source of the costing information (ex. price list or scaled pricing based on a previous sale) . Both A) and B) are required to earn full points.	

Criteria #	Criteria - Innovation Proposal		
TI 2	The Respondent does not provide a second technological innovation for the deck equipment or does not provide sufficient information on the specifications of the innovation.	0	/5
		The Respondent's innovation proposal describes and illustrates through drawings, pictures and narrative a second innovative solution that is aligned with the deck equipment and provides some enhancement to the safety, fuel consumption, emission standing or operations of the vessel.	

	<p>The Respondent does not provide any costing information for the second technological innovation, or does not provide one of A) costing or B) the source of the costing information.</p>	<p>The Respondent's innovation proposal includes A) costing and B) the source of the costing information (ex, price list or scaled pricing based on a previous sale) . Both A) and B) are required to earn full points.</p>	
--	--	---	--

Phase 2 - Rated Technical Criteria, Item 5 - Presentation

Rated Technical Criteria		Maximum Points Available
Criteria #	Item 5 - Presentation	/5
PR 1	The Respondent provides a well laid out response and follows the formatting structure below.	5
Maximum Potential Score		/5

Category - Presentation		
Criteria #	0	5
PR 1	The Respondent provides a poorly laid out response that does not follow the formatting structure below.	The Respondent provides a well laid out response and follows the formatting structure below.

Formatting structure is as follows:

Table	Checklist if it is included in proposal	Self Evaluation
Table of contents	Yes or No	Indicate which page or range of pages in the response that demonstrate each criteria below are met
1. Mandatory Requirements		
1.1. TM 1 (do not include drawing package here, include at SD 2 with page number cross-reference)		
1.2. TM 2		
1.3. TM 3		
2. Experience		
2.1. EX 1		
2.2. EX 2		
2.3. EX 3		
2.4. EX 4		
3. System Design – to be provided as a report		
3.1. SD 1 (Section 1 – Rationale. All subheadings must be per system scope list numbering)		
3.2. SD 2 (Section 2– Drawings)		
3.3. SD 3 (Section 3 - Costing information)		
4. System Support		
4.1. SUPP 1		
4.2. SUPP 2		
5. Tech Innovations		
5.1. TI 1		

5.2. T12		
Page numbers should be included.		
Respondents are strongly encouraged to use the above table to self-evaluate to ensure their response is complete.		

Criteria #	Rated Technical Criteria	Maximum Points Available
Criteria #	Item 1 - Experience with Deck Equipment	/62
EX 1	The Respondent has experience engineering and delivered* at least one deck equipment package consisting of all four of : 1) a crane, 2) A-frame, 3) a metered winch, and 4) J- frame in the 60 months prior to the RFID - Deck Equipment response closing date.	/20
EX 2	The Respondent has experience engineering and delivered* one vessel with a control chair and integrating system controls from other system suppliers in the 60 months prior to the RFID - Deck Equipment response closing date.	/12
EX 3	The Respondent has delivered* one vessel with both electric and hydraulically powered deck equipment and that uses regenerative power on a single vessel in the 60 months prior to the RFID - Deck Equipment response closing date.	/12
EX 4	The Respondent has delivered* the specified items in the system scope as per Section 1.7.10 of the RFID - Deck Equipment on a previous procurement where the vessel has entered into service in the 60 months prior to the RFID - Deck Equipment response closing date.	/18
Criteria #	Item 2 - System Design	/76
SD 1	System Design Rationale: The Respondent provides a complete report addressing A) the Respondent's general methodology for validating and sizing equipment B) sizing information for the Respondent's proposed NSFRV concept* solution C) lifecycle considerations for specific equipment, and D) potential equipment alternatives.	/40
SD 2	Drawing Package: The Respondent provides a concept * drawing package** for their proposed deck equipment solution that includes all items within the system scope as per Section 1.7.10 of the RFID - Deck Equipment. The Respondent drawing package reflects an ergonomic layout with considerations for maintenance envelopes and clear sizing parameters and that is aligned with the equipment selection and sizing.	/20
SD 3	System Costing: The Respondent provides costing information for their proposed solution and any alternate solution(s) identified.	/16
Criteria #	Item 3 - System Support	/10
SUPP 1	Field Service Representatives: Part A: The Respondent currently has a FSRs that can be available to Sorel, Quebec within 24 hours of receiving a request to support its deck equipments systems. Part B: In addition to the criteria in the Note above, the Respondent provides proof with its marketing materials that ongoing field support is part of its standard business. Both Part A and Part B are required to earn full points.	5
SUPP 2	Training Services: Part A: The Respondent has a training services team or branch within their organization that currently provides training services. Part B: In addition to the criteria in the Note above, the Respondent provides proof with its marketing materials that training is part of its standard business and it has personnel in place to deliver training. Both Part A and Part B are required to earn full points.	5
Criteria #	Item 4 - Technological Innovation	/10
TI 1	The Respondent's innovation proposal describes and illustrates through drawings, pictures and narrative one (1) innovative solution that is aligned with the deck equipment and provides some enhancement to the safety, fuel consumption, emission standing or operations of the vessel. In addition, the Respondent innovation proposal includes A) costing and B) the source of the costing information (ex, price list or scaled pricing based on a previous sale) . Both A) and B) are required to earn full points.	5
TI2	The Respondent's innovation proposal describes and illustrates through drawings, pictures and narrative a second innovative solution that is aligned with the deck equipment and provides some enhancement to the safety, fuel consumption, emission standing or operations of the vessel. In addition, The Respondent's innovation proposal includes A) costing and B) the source of the costing information (ex, price list or scaled pricing based on a previous sale) . Both A) and B) are required to earn full points.	5
Criteria #	Item 5 - Presentation	/5
PR 1	The Respondent provides a well laid out response and follows the formatting structure below.	5
Total		/163

The minimum pass mark for the rated technical elements portion of the evaluation is 100 out of a possible 163.