



## RETURN BIDS TO:

## RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government  
Services Canada/Réception des soumissions  
Travaux publics et Services gouvernementaux  
Canada

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

Halifax

Nova Scotia

B3J 1T3

Bid Fax: (902) 496-5016

## REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du**

**fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Atlantic Region Acquisitions/Région de l'Atlantique  
Acquisitions

1713 Bedford Row

Halifax, N.S./Halifax, (N.É.)

Halifax

Nova Scot

B3J 1T3

<b>Title - Sujet</b> Sea Container	
<b>Solicitation No. - N° de l'invitation</b> W7707-196307/A	<b>Date</b> 2018-06-29
<b>Client Reference No. - N° de référence du client</b> W7707-19-6307	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$HAL-121-5754	
<b>File No. - N° de dossier</b> HAL-8-80003 (121)	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2018-08-14</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Atlantic Daylight Saving Time ADT
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Russell (HAL), Alex	<b>Buyer Id - Id de l'acheteur</b> hal121
<b>Telephone No. - N° de téléphone</b> (902) 401-8180 ( )	<b>FAX No. - N° de FAX</b> (902) 496-5016
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b>	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

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

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Statement of Requirement**

Supply one modified 20 Foot (ft) International Organization for Standardization (ISO) VP2 Sea Going Scientific Lab Container, modified in accordance with Annex A, Statement of Requirement, including accessories as specified.

### **1.2 Debriefings**

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

### **1.3 Trade Agreements**

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA) and the Canadian Free Trade Agreement (CFTA).

## **PART 2 - BIDDER INSTRUCTIONS**

### **2.1 Standard Instructions, Clauses and Conditions**

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/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.

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The [2003](#) (2017-04-27) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

Subsection 5.4 of [2003](#), Standard Instructions - Goods or Services - Competitive Requirements, is amended as follows:

Delete: 60 days  
Insert: 90 days

### **2.2 Submission of Bids**

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

### **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than seven calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit

the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

## **2.4 Applicable Laws**

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Nova Scotia.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## **PART 3 - BID PREPARATION INSTRUCTIONS**

### **3.1 Bid Preparation Instructions**

Due to the nature of the bid solicitation, bids transmitted by epost Connect service and by facsimile will not be accepted.

Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (2 hard copies)

Section II: Financial Bid (1 hard copy)

Section III: Certifications (1 hard copy)

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the hard copy will have priority over the wording of the soft copy.

Canada requests that bidders follow the format instructions described below in the preparation of hard copy of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation.

In April 2006, Canada issued a policy directing federal departments and agencies to take the necessary steps to incorporate environmental considerations into the procurement process [Policy on Green Procurement](http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ecologisation-greening/achats-procurement/politique-policy-eng.html>). To assist Canada in reaching its objectives, bidders should:

- 1) use 8.5 x 11 inch (216 mm x 279 mm) paper containing fibre certified as originating from a sustainably-managed forest and containing minimum 30% recycled content; and
- 2) use an environmentally-preferable format including black and white printing instead of colour printing, printing double sided/duplex, using staples or clips instead of cerlox, duotangs or binders.

#### **Section I: Technical Bid**

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

## **Section II: Financial Bid**

Bidders must submit their financial bid in accordance with the Basis of Payment.

### **3.1.1 Electronic Payment of Invoices – Bid**

If you are willing to accept payment of invoices by Electronic Payment Instruments, complete Annex “C” Electronic Payment Instruments, to identify which ones are accepted.

If Annex “C” Electronic Payment Instruments is not completed, it will be considered as if Electronic Payment Instruments are not being accepted for payment of invoices.

Acceptance of Electronic Payment Instruments will not be considered as an evaluation criterion.

## **Section III: Certifications**

Bidders must submit the certifications and additional information required under Part 5.

## **PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION**

### **4.1 Evaluation Procedures**

(a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

(b) An evaluation team composed of representatives of Canada will evaluate the bids.

#### **4.1.1 Technical Evaluation**

##### **4.1.1.1 Mandatory Technical Criteria**

Bidder must meet each criteria identified in Annex A – 5.1 and 5.2. Bidders are requested to provide details demonstrating each criteria with their bid. Canada may request additional proof of any or all criteria listed prior to award.

Bidders are encouraged to use Annex D as a guide for ensuring all criteria are identified in their bid submission.

#### **4.1.2 Financial Evaluation**

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

### **4.2 Basis of Selection**

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

## **PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION**

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any

certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

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

## **5.1 Certifications Required with the Bid**

Bidders must submit the following duly completed certifications as part of their bid.

### **5.1.1 Integrity Provisions - Declaration of Convicted Offences**

In accordance with the Integrity Provisions of the Standard Instructions, all bidders must provide with their bid, **if applicable**, the declaration form available on the [Forms for the Integrity Regime](http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html) website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

## **5.2 Certifications Precedent to Contract Award and Additional Information**

The certifications and additional information listed below should be submitted with the bid, but may be submitted afterwards. If any of these required certifications or additional information is not completed and submitted as requested, the Contracting Authority will inform the Bidder of a time frame within which to provide the information. Failure to provide the certifications or the additional information listed below within the time frame provided will render the bid non-responsive.

### **5.2.1 Integrity Provisions – Required Documentation**

In accordance with the section titled Information to be provided when bidding, contracting or entering into a real procurement agreement of the [Ineligibility and Suspension Policy](http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/politique-policy-eng.html>), the Bidder must provide the required documentation, as applicable, to be given further consideration in the procurement process.

## **PART 6 - RESULTING CONTRACT CLAUSES**

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

### **6.1 Security Requirements**

**6.1.1** There is no security requirement applicable to the Contract.

### **6.2 Statement of Requirement**

Supply one modified 20 Foot (ft) International Organization for Standardization (ISO) VP2 Sea Going Scientific Lab Container, modified in accordance with Annex A, Statement of Requirement, including accessories as specified.

### **6.3 Standard Clauses and Conditions**

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/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.

### 6.3.1 General Conditions

**2010A** (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

### 6.4 Term of Contract

#### 6.4.1 Delivery Date

All the deliverables must be received on or before March 31, 2019.

#### 6.4.2 Delivery Points

Delivery of the requirement will be made to delivery point specified at Annex "A" of the Contract.

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Alex Russell  
Title: Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch  
Address: 1713 Bedford Row, Halifax, NS B3J 1T3

Telephone: 902-401-8180  
E-mail address: alex.russell@pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

#### 6.5.2 Project Authority

The Project Authority for the Contract is:

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

The Project Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

#### 6.5.3 Contractor's Representative

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

## **6.6 Payment**

### **6.6.1 Basis of Payment**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex *B* for a cost of \$ \_\_\_\_\_ (*insert the amount at contract award*). Customs duties are excluded and Applicable Taxes are extra.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### **6.6.2 Limitation of Price**

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

### **6.6.3 Single Payment**

Canada will pay the Contractor upon completion and delivery of the Work in accordance with the payment provisions of the Contract if:

- a. an accurate and complete invoice and any other documents required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- b. all such documents have been verified by Canada;
- c. the Work delivered has been accepted by Canada.

### **6.6.5 Electronic Payment of Invoices – Contract**

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);



## **6.7 Invoicing Instructions**

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

## **6.8 Certifications and Additional Information**

### **6.8.1 Compliance**

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

## **6.9 Applicable Laws**

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

## **6.10 Priority of Documents**

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A – Goods Medium complexity;
- (c) Annex A, Statement of Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_.

## **6.11 Insurance**

The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

## **ANNEX A**

### **STATEMENT OF REQUIREMENT**

***Purchase requEST tool tracking number: 2017-16003***

#### **1. TITLE**

20 FOOT (FT) International Organization for Standardization (ISO) VP2 SEA GOING SCIENTIFIC LAB CONTAINER

#### **2. BACKGROUND**

A 20 FT ISO commercial shipping container must be supplied and modified so that it can be used as a portable scientific lab. This portable lab will house electronic equipment racks and personal equipment. Operationally, the 20 FT container will be mounted using standard ISO locks that are designed for vessels operating offshore.

#### **3. ACRONYMS**

DRDC	Defence Research and Development Canada
FT	Foot
HVAC	Heating Ventilation and Air Conditioning
ISO	International Organization for Standardization
kVA	Kilovolt-Amp
LSZH	Low Smoke Zero Halogen
UNF	Unified Fine
V	Volt
VTC	Virtual Telephone Conference

#### **4. APPLICABLE DOCUMENTS & REFERENCES**

**AD1:** Drawing Number: 2017-00043381 - VP2 Sea Container

**AD2:** Drawing Number: 2017-00043389 - Floor Plate

#### **5. REQUIREMENTS**

##### **5.1 20FT ISO VP2 SEA GOING SCIENTIFIC LAB CONTAINER**

**Required quantity: 1**

The Contractor must provide the requirement with the following modifications:

#### 5.1.1 Watertight Marine Doors

Requirement Number	Specifications	Value
5.1.1.1	Watertight Marine Door 36 inch X 74inch	1 new outward swinging, 36 inch X 74 inch watertight marine door, complete with window and keyed lock set, keyed alike, must be installed in the left side wall of the container midway between the forward and after ends, as indicated in drawing 2017-00043381 Section A-A.
5.1.1.2	Watertight Marine Door 32 inch X 74inch	1 new outward swinging, 32 inch X 74 inch watertight marine door, complete with window and keyed lock set, keyed alike to the left side door lockset, must be installed in the left hand cargo door as indicated in drawing 2017-00043381 Section A-A with the cargo door's securing system modified to ensure a proper seal.

#### 5.1.2 Floor Section

Requirement Number	Specifications	Value
5.1.2.1	Floor Section (Main)	A section of the existing wooden floor must be replaced with a ¾ inch thick steel plate insert, as indicated in drawing 2017-00043381 Section A-A. The insert must be flush with the existing floor and start 14 inches from left side after paneling and/or insulation is installed, as indicated in drawing 2017-00043381 Section A-A.
5.1.2.2	Floor Section (Remaining)	The remaining wooden floor must be covered with a durable industrial grade non slip vinyl flooring material.

#### 5.1.3 Interior Container

Requirement Number	Specifications	Value
5.1.3.1	Materials	The interior must be insulated with spray foam, and covered with paneling material that meets marine fire standards with a thickness of 2 inch from inner most steel corrugation on walls including paneling material.

<b>5.1.3.2</b>	Paint	The interior ceiling and walls must be painted with a light white or grey coloured enamel capable of surviving a marine environment.
<b>5.1.3.3</b>	Flat Bar/Plate	A ¼ inch thick X 12 foot 7 inch long steel flat bar/plate must be installed (welded) on the ceiling of the container to act as a top steady for mounting electronic racks. The steel flat bar/plate must be trimmed to be parallel with the steel floor insert, at a height of 82 inches, as indicated in drawing 2017-00043381 Section B-B.

#### 5.1.4 Electrical

Requirement Number	Specifications	Value
<b>5.1.4.1</b>	120 Volt (V) Power Receptacles	Quantity 6 of 120 V receptacles must be installed in the ceiling between the steel flat bar/plate and the right wall, as indicated in drawing 2017-00043381 Section B-B. Each receptacle must run to its own circuit in the 120/240 power panel.
<b>5.1.4.2</b>	240V Power Receptacles	Quantity 3 of 240 V receptacles must be installed in the ceiling between the steel flat bar/plate and the right wall, as indicated in drawing 2017-00043381 Section B-B.
<b>5.1.4.3</b>	Exterior Receptacles	Quantity 2 of 120 V marine grade recessed receptacles with covers must be installed on the left wall exterior located adjacent to the marine doors, at a height of 5 feet from base of container.
<b>5.1.4.4</b>	Light Fixtures	<p>6 LED light fixtures with illumination equivalent to Aqua Signal 1444 must be installed. 2 must be installed on the right wall and 4 must be installed on the ceiling, as indicated in drawing 2017-00043381 Section B-B.</p> <p>The 2 lights installed on the wall must be wired on 1 circuit.</p> <p>The 4 lights installed on the ceiling must be wired separately as pairs.</p> <p>The 2 lights located on the end of the container with the door must be wired together on 1 circuit and the 2 on the container end with no door must be wired on a separate circuit.</p> <p>Lights must have emergency battery backup with a</p>

		minimum operation time of 90 minutes.
<b>5.1.4.5</b>	Light Switches for Ceiling Lights	2 light switches for each of the ganging 2 ceiling lights must be installed adjacent to each of the marine doors for ceiling mounted lights. Switches must be housed in IP67 water resistant housings.
<b>5.1.4.6</b>	Light Switches for Wall Lights	1 light switch must be installed on the right side for wall mounted lights.
<b>5.1.4.7</b>	Cable Trays	Cable trays must be installed with standoffs used for electrical routing. Lengths of cable trays must be sufficient to carry the required amount of cables. All wiring must be visible for ease of future maintenance.
<b>5.1.4.8</b>	Receptacle	1 recessed, exterior facing 480 V 100 amp, 3 phase, Russellstoll receptacle (service entrance) must be installed on the right forward end, at a minimum height of 4 feet, as indicated in drawing 2017-00043381 Section A-A.
<b>5.1.4.9</b>	Service Panel	1 Service panel capable of 400 amp, 3 phase, and 600 V must be installed.
<b>5.1.4.10</b>	Phase Breakers	Quantity 2 of 125 amp, 600 V, 3 phase breakers must be installed in the service panel. One 100 amp, 600 V, single phase breaker must be installed in the service panel.
<b>5.1.4.11</b>	Transformer	1 Transformer (50 Kilovolt-Amp (kVA) or greater) to take 100 amp, 600 V, single phase from the service panel to a 200 amp, 240 V / 120 V breaker panel. The location will be determined by the placement of the Heating Ventilation and Air Conditioning (HVAC) unit. The placement of the transformer unit and mounting system must be such that the transformer unit can be easily removed from container.
<b>5.1.4.12</b>	Wiring Placement	All wiring must be installed on the inside of container paneling so that all wiring is visible and accessible for servicing.
<b>5.1.4.13</b>	Wiring Standard	All electrical wiring must be Low Smoke Zero Halogen (LSZH) for use in a marine environment.

### 5.1.5 Plate Insert

Requirement Number	Specifications	Value
5.1.5.1	Hole Spacing	The plate insert must be fitted with quantity 12 of 1-14 Unified Fine (UNF) Tapped Thru Holes and 8 of 1/2-13 UNC Tapped Thru Holes, as indicated in drawing 2017-00043389.
5.1.5.2	Grounding Lugs	Quantity 6 of ½ inch grounding lugs must be installed into the plate insert evenly spaced for each of the 6 rack mounting locations.

### 5.1.6 Fire Safety

Requirement Number	Specifications	Value
5.1.6.1	Fire Alarm Pull Stations	2 fire alarm pull stations must be installed adjacent to the marine doors.
5.1.6.2	Brackets for Fire Detection Sensors	2 brackets for fire detection sensors must be installed on the ceiling, approximately 24 inch from the ends of the container.
5.1.6.3	Brackets for Fire Extinguishers	2 brackets for mounting chemical fire extinguishers must be installed adjacent to the marine doors.

### 5.1.7 Heating Ventilation and Air Conditioning (HVAC) Unit

Requirement Number	Specifications	Value
5.1.7.1	HVAC Location	HVAC system must be internally mounted.
5.1.7.2	HVAC Temperature Ratings	An internal HVAC system must be installed that is capable of operation in external environments ranging from -30 degrees Celsius to +40 degrees Celsius, and maintaining a +18 degrees Celsius to +21 degrees Celsius internal temperature.
5.1.7.3	HVAC Maximum Operation Noise Limit	HVAC must have a maximum operation noise limit for human occupancy for a duration of 20 hours.
5.1.7.4	HVAC Drain	The HVAC system must have an external drain for draining water when operating in dehumidify or Air Conditioning modes. HVAC drain must have NPT pipe plug installed to seal container from water ingress in extreme sea conditions.

<b>5.1.7.5</b>	HVAC Vents	All vents venting to outside of container must have a removable watertight hatch with threaded dogs used on ship portholes to seal container in rough sea conditions.
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#### 5.1.8 Container Exterior

Requirement Number	Specifications	Value
<b>5.1.8.1</b>	Paint	The exterior of the container must be primed and painted with marine enamel in a light grey tint or buff tint. No dark tint paint must be applied.
<b>5.1.8.2</b>	Undercoat	A corrosion preventing undercoat must be applied to the underside of the container.
<b>5.1.8.3</b>	Stiffener Beams	2 stiffener beams must be added longitudinally to underside of the container at 2.5 feet spacing from centerline of container.

#### 5.1.9 Tie Down Eyes

	Specifications	Value
<b>5.1.9.1</b>	Tie Down Eyes Midlevel	8 tie down eyes must be installed 32 inches above the floor, and 24 inches apart on left and right sides (4 on each side).
<b>5.1.9.2</b>	Tie Down Eyes Floor	8 tie down eyes must be installed on the floor, 24 inches apart on left and right sides (4 on each side).
<b>5.1.9.3</b>	Tie Down Eyes Ceiling	8 tie down eyes must be installed on the ceiling, 24 inches apart on left and right sides (4 on each side).

#### 5.1.10 Supports

Requirement Number	Specifications	Value
<b>5.1.10.1</b>	Supports	Container must have supports capable of supporting 4 removable ISO levelling supports that will be periodically mounted to the 4 corners of container.

#### 5.1.11 Base Slots

Requirement	Specifications	Value
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Number		
5.1.11.1	Base Slots	Container must be modified to have slots in base of container such that it can be picked up with a forklift as indicated in drawing 2017-00043381.

#### 5.1.12 Pipe Cable Transit Frame

Requirement Number	Specifications	Value
5.1.12.1	Pipe Cable Transit Frame	4 inch diameter pipe cable transit frames (4 inch schedule 40 steel pipe) must be installed, quantity 2 of each, on both sides of the container. The interior end of the pipe must be threaded to allow the use of a standard 4 inch internally threaded steel pipe cap (which must be included) to seal the openings when the transit blocks are not fitted. The transits must be installed on each side, 1 on the forward end and 1 on the aft end, as indicated in drawing 2017-00043381 Section A-A.

## 5.2 ACCESSORIES

The Contractor must provide the following accessories for requirement 5.1:

Description	Required quantity
Roll up blinds for windows in both marine doors installed with latch to retain blind to window.	2
Spare LED light fixture of same make and model as requested in 5.1.4.4.	1
Spare tumblers and keys for marine grade watertight doors.	2

## 6. Deliverables

**6.1 Deliverables for requirement 5.1:** Modified VP2 Container as described in 5.1.

**6.2 Deliverables for requirement 5.2:** All accessories listed in 5.2.

## 7. DATE OF DELIVERY

**Deliverable 6.1:** On or before 31-March-2019

**Deliverable 6.2:** On or before 31-March-2019



**8.      *Language of Work***

The language of all work and deliverables must be in English.

**9.      *DELIVERY LOCATION***

Defence Research and Development Canada – Atlantic Research Centre  
Storage Yard  
9 Grove Street  
Dartmouth, Nova Scotia  
B2Y 3Z7, Canada

**10.     *TRAVEL***

The Contractor is not required to travel as part of this contract.

**11.     *MEETINGS***

Meeting as required to discuss progress or issues will be held by phone, Video Teleconference (VTC), or Defence Research and Development Canada (DRDC) employees can travel to Contractor's office location.

**12.     *GOVERNMENT SUPPLIED MATERIAL (GSM)***

None

**13.     *GOVERNMENT FURNISHED EQUIPMENT (GFE)***

None

## ANNEX B

### BASIS OF PAYMENT

Item	Total Price
20FT ISO VP2 SEA GOING SCIENTIFIC LAB CONTAINER AS PER ANNEX A 5.1	\$ _____
Accessories as per Annex A 5.2	\$ _____
Delivery	\$ _____
<b>Total price for all items including delivery HST excluded</b>	<b>\$ _____</b>

## **ANNEX “C” to PART 3 OF THE BID SOLICITATION**

### **ELECTRONIC PAYMENT INSTRUMENTS**

The Bidder accepts any of the following Electronic Payment Instrument(s):

- ☐ ( ) VISA Acquisition Card;
- ☐ ( ) MasterCard Acquisition Card;
- ☐ ( ) Direct Deposit (Domestic and International);
- ☐ ( ) Electronic Data Interchange (EDI);
- ☐ ( ) Wire Transfer (International Only);

## ANNEX D – BID SUBMISSION GUIDE

Criteria Ref	Criteria	Meets Criteria	Referenced evidence can be found at:
5.1.1.1	Watertight Marine Door	YES ____ NO ____	Page #:
5.1.1.2	Watertight Marine Door	YES ____ NO ____	Page #:
5.1.2.1	Floor Section (Main)	YES ____ NO ____	Page #:
5.1.2.2	Floor Section (Remaining)	YES ____ NO ____	Page #:
5.1.3.1	Materials	YES ____ NO ____	Page #:
5.1.3.2	Paint	YES ____ NO ____	Page #:
5.1.3.3	Flat Bar/Plate	YES ____ NO ____	Page #:
5.1.4.1	120 Volt (V) Power Receptacles	YES ____ NO ____	Page #:
5.1.4.2	240V Power Receptacles	YES ____ NO ____	Page #:
5.1.4.3	Exterior Receptacles	YES ____ NO ____	Page #:
5.1.4.4	Light fixtures	YES ____ NO ____	Page #:
5.1.4.5	Light switches for ceiling lights	YES ____ NO ____	Page #:
5.1.4.6	Light switches for wall lights	YES ____ NO ____	Page #:
5.1.4.7	Cable trays	YES ____ NO ____	Page #:
5.1.4.8	Receptacle	YES ____ NO ____	Page #:
5.1.4.9	Service Panel	YES ____ NO ____	Page #:
5.1.4.10	Phase Breakers	YES ____ NO ____	Page #:
5.1.4.11	Transformer	YES ____ NO ____	Page #:
5.1.4.12	Wiring Placement	YES ____ NO ____	Page #:
5.1.4.13	Wiring standard	YES ____ NO ____	Page #:
5.1.5.1	Hole spacing	YES ____ NO ____	Page #:
5.1.5.2	Grounding lugs	YES ____ NO ____	Page #:
5.1.6.1	Fire Alarm pull stations	YES ____ NO ____	Page #:
5.1.6.2	Brackets for fire detection sensors	YES ____ NO ____	Page #:

5.1.6.3	Brackets for fire extinguishers	YES ____ NO ____	Page #:
5.1.7.1	HVAC location	YES ____ NO ____	Page #:
5.1.7.2	HVAC temperature ratings	YES ____ NO ____	Page #:
5.1.7.3	HVAC Maximum Operation Noise Limit	YES ____ NO ____	Page #:
5.1.7.4	HVAC Drain	YES ____ NO ____	Page #:
5.1.7.5	HVAC Vents	YES ____ NO ____	Page #:
5.1.8.1	Paint	YES ____ NO ____	Page #:
5.1.8.2	Undercoat	YES ____ NO ____	Page #:
5.1.8.3	Stiffener Beams	YES ____ NO ____	Page #:
5.1.9.1	Tie Down Eyes Midlevel	YES ____ NO ____	Page #:
5.1.9.2	Tie Down Eyes Floor	YES ____ NO ____	Page #:
5.1.9.3	Tie Down Eyes Ceiling	YES ____ NO ____	Page #:
5.1.10.1	Supports	YES ____ NO ____	Page #:
5.1.11.1	Base Slots	YES ____ NO ____	Page #:
5.1.12.1	Pipe Cable Transit Frame	YES ____ NO ____	Page #:
5.2	Accessories	YES ____ NO ____	Page #: