



**RETURN BIDS TO:**

**RETOURNER LES SOUMISSIONS À:**

Travaux publics et Services gouvernementaux  
Canada

Voir dans le document/

See herein

NA

Québec

NA

**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**

Travaux publics et Services gouvernementaux Canada  
Place Bonaventure, portail Sud-Oue  
800, rue de La Gauchetière Ouest  
7e étage, suite 7300  
Montréal  
Québec  
H5A 1L6

<b>Title - Sujet</b> Mobile Laboratory Mobile Laboratory	
<b>Solicitation No. - N° de l'invitation</b> W7701-207273/D	<b>Date</b> 2022-01-14
<b>Client Reference No. - N° de référence du client</b> W7701-207273	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$MTA-555-16372	
<b>File No. - N° de dossier</b> QCN-0-43099 (555)	<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> Eastern Standard Time EST <b>on - le 2022-02-15</b> Heure Normale du l'Est HNE	
<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> Carboneau, Julie	<b>Buyer Id - Id de l'acheteur</b> mta555
<b>Telephone No. - N° de téléphone</b> (418) 929-6780 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> BAT 53 DRDC-Defence R&D Canada-Valcartier BATISSE 53 2459 ROUTE DE LA BRAVOURE QUEBEC Québec G3J1X5 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

<b>Delivery Required - Livraison exigée</b> Voir Doc.	<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>

Solicitation No. - N° de l'invitation  
W7701-207273/D  
Client Ref. No. - N° de réf. du client  
W7701-207273

Amd. No. - N° de la modif.  
File No. - N° du dossier  
QCN-0-43099

Buyer ID - Id de l'acheteur  
MTA555  
CCC No./N° CCC - FMS No./N° VME

THIS BID SOLICITATION CANCELS AND SUPERSEDES PREVIOUS BID SOLICITATION NUMBER W7701-207273/C DATED 2021-06-02 WITH A CLOSING OF 2021-07-20 AT 14:00 EDT. A DEBRIEFING OR FEEDBACK SESSION WILL BE PROVIDED UPON REQUEST TO BIDDERS/OFFERORS/SUPPLIERS WHO BID ON THE PREVIOUS SOLICITATION.

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Introduction**

The bid solicitation is divided into seven parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides Bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications and Additional Information: includes the certifications and additional information to be provided;
- Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Requirement, the Basis of Payment, the Electronic Payment Instruments and any other annexes.

### **1.2 Summary**

Defence Research and Development Canada (DRDC) wants to acquire a mobile laboratory to do various mechanical and electrical work, along with measuring of different interconnected systems. The delivery must be made at DRDC Valcartier.

### **1.3 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.

### **1.4 epost Connect service**

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information.

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## 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](#) (2020-05-28) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/25>

#### 2.1.1 Best Delivery Date – Bid **(To be completed by the bidder)**

While delivery is requested by fifteen weeks, the best delivery time that could be offered by the bidder is \_\_\_\_\_ weeks from contract award date.

### 2.2 Submission of Bids

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

#### 2.2.1 Epost Connect

Bidders choosing to submit using epost Connect must send an email requesting to open an epost Connect conversation to the following address:

[TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.PWGSC@tpsgc-pwgsc.gc.ca](mailto:TPSGC.RQReceptionSoumissions-QRSupplyTendersReception.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](#) (<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/1/2003/active>), 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.

[Steps to follow for the Bid Submission to Bid Receiving Unit \(BRU\) using epost Connect](https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect)  
(<https://buyandsell.gc.ca/steps-to-follow-for-the-bid-submission-to-bid-receiving-unit-bru-using-epost-connect>)

## 2.2.2 Facsimile

Facsimile number: 418-566-6168.

**2.2.3** Bids transmitted by hardcopy to PWGSC will not be accepted.

## 2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than seven (7) 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 Quebec.

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.

## 2.5 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
  - Office of the Procurement Ombudsman (OPO)
  - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

## 2.6 SACC Manual Clauses

[A9033T](#) (2012-07-16), Financial Capacity  
[A7035T](#) (2007-05-25), List of Proposed Subcontractors

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

### **3.1 Bid Preparation Instructions**

If the Bidder chooses to submit its bid electronically, Canada requests that the Bidder submits its bid 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 bid must be gathered per section and separated as follows:

Section I: Technical Bid  
Section II: Financial Bid  
Section III: Certifications

Bids transmitted by hardcopy will not be accepted.

Prices must appear in the financial bid only. No prices must be indicated in any other section of the bid.

#### **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.

#### **3.1.2 Exchange Rate Fluctuation**

[C3011T](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/C/C3011T/5) (2013-11-06), Exchange Rate Fluctuation  
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/C/C3011T/5>

#### **Section III: Certifications**

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

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## 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 - Mandatory Technical Criteria (must be demonstrated by the bidder with their proposal)

The technical evaluation will be based on the mandatory technical criteria detailed in Annex C.

Bidders must demonstrate that the goods and/or services offered are compliant with each of these mandatory technical criteria with documents and/or technical drawings, which must be submitted with their proposal (no internet links will be accepted).

Bidders should complete the grid in Annex C in order to indicate where the technical criteria are demonstrated within their submitted documents and/or technical drawings and include it with their proposal.

#### 4.1.2 Financial Evaluation

1. Bidders must submit firm prices, customs duties and excise taxes included, and Applicable Taxes excluded.
2. Unless the bid solicitation specifically requires bids to be submitted in Canadian currency, bids submitted in foreign currency will be converted to Canadian currency for evaluation purposes. The rate given by the Bank of Canada in effect on the bid solicitation closing date, or on another date specified in the bid solicitation, will be applied as a conversion factor to the bids submitted in foreign currency.
3. Bidders must provide prices Delivered Duty Paid (DDP) Valcartier Incoterms 2010 for shipments from a commercial contractor. Bids will be assessed on an DDP basis.

### 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.

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## 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 Integrity 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 specified 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 property 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.

#### 5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid list at the time of contract award.



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## 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 Requirement

The Contractor must provide a mobile laboratory in accordance with the Requirement at Annex A.

### 6.2 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.

#### 6.2.1 General Conditions

[2030](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/3/2030/20) (2021-12-02), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract. <https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/3/2030/20>

Subsection 46 of 2030: General conditions - Higher Complexity - Goods is incorporated as follows:

2030 46 (2021-11-04) Anti-forced labour requirements

1. The Contractor represents and warrants that the Work is not mined, manufactured or produced wholly or in part by forced labour. Regardless of who acts as an importer, the Contractor must not during the performance of the Contract, directly or indirectly, deliver Work to Canada or import Work into Canada the importation of which is prohibited pursuant to ss. 136(1) of the *Customs Tariff Act* and tariff item No. 9897.00.00 of the [\*Customs Tariff – Schedule\*](#) (as amended from time to time), because it is mined, manufactured or produced wholly or in part by forced labour.
2. If a tariff classification determination is made under the *Customs Act* and that the importation of the Work, or any part of the Work, is prohibited, the Contractor must immediately inform the Contracting Authority in writing. Canada may terminate the Contract for default in accordance with section 2030 31- Default by the Contractor if the Work or any part of the Work is classified under tariff item no. 9897.00.00 of the [\*Customs Tariff – Schedule\*](#) as mined, manufactured or produced wholly or in part by forced labour. If the Contractor is aware that the Work, or any part of the Work, is being or has been investigated regarding whether it is prohibited from entry pursuant to tariff item No. 9897.00.00, the Contractor must immediately inform the Contracting Authority in writing of that investigation.
3. Canada may terminate the Contract for default in accordance with section 2030 31- Default by the Contractor if it has reasonable grounds to believe the Work was mined, manufactured or produced in whole or in part by forced labour or linked to human trafficking. Reasonable grounds for making such a determination may include:
  - a. Findings or Withhold Release Orders issued by the United States Customs *Trade* and Border Protection, under the US [\*Trade Facilitation and Trade Enforcement Act\*](#) (TFTEA) of 2015; or
  - b. Credible evidence from a reliable source, including but not limited to non-governmental organizations.

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4. Canada may terminate the Contract for default in accordance with section 2030 31- Default by the Contractor if the Contractor has, in the past three years, been convicted of any of the following offences under the Criminal Code or the Immigration and Refugee Protection Act:
- Criminal Code*
- i. section 279.01 (Trafficking in persons);
  - ii. section 279.011 (Trafficking of a person under the age of eighteen years);
  - iii. subsection 279.02(1) (Material benefit - trafficking);
  - iv. subsection 279.02(2) (Material benefit - trafficking of person under 18 years);
  - v. subsection 279.03(1) (Withholding or destroying documents - trafficking);
  - vi. subsection 279.03(2) (Withholding or destroying documents - trafficking of person under 18 years); or
- Immigration and Refugee Protection Act*
- vii. section 118 (Trafficking in persons).
5. Canada may terminate the Contract for default in accordance with section 2030 31- Default by the Contractor if the Contractor has, in the past three years, been convicted of an offence in a jurisdiction other than Canada that, in Canada's opinion, is similar to any of the offences identified in paragraphs 4(i) to (vii).
6. For purposes of determining whether a foreign offence is similar to a listed offence, PWGSC will take into account the following factors:
- i. in the case of a conviction, whether the court acted within its jurisdiction;
  - ii. whether the supplier was afforded the right to appear during the court's proceedings or to submit to the court's jurisdiction;
  - iii. whether the court's decision was obtained by fraud; or
  - iv. whether the supplier was entitled to present to the court every defence that the supplier would have been entitled to present had the proceeding been tried in Canada.
7. Where Canada intends to terminate the Contract under this section, Canada will inform the Contractor and provide the Contractor an opportunity to make written representations before making a final decision. Written representations must be submitted within 30 days from receiving a notice unless Canada establishes a different deadline.

### 6.3 Security Requirements

There is no security requirement applicable to the Contract.

### 6.4 Term of Contract

#### 6.4.1 Period of the Contract

The period of the Contract is from date of Contract to 12 months later, inclusively.

#### 6.4.2 Delivery Period

All the deliverables must be received within \_\_\_\_\_ (\_\_) weeks after contract award.  
(will be added at contract award)

#### 6.4.3 Delivery Point

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: Julie Carbonneau  
Title: Supply Specialist  
Public Works and Government Services Canada Acquisitions Branch  
Telephone: 418-929-6780  
E-mail address: [julie.carbonneau@tpsgc-pwgsc.gc.ca](mailto:julie.carbonneau@tpsgc-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 Technical Authority

The Technical Authority for the Contract is: (will be filled upon award)

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Organization: \_\_\_\_\_  
  
Telephone: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
Facsimile: \_\_\_\_ - \_\_\_\_ - \_\_\_\_  
E-mail address: \_\_\_\_\_

The Technical 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 Technical Authority; however, the Technical 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.

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Buyer ID - Id de l'acheteur  
MTA555  
CCC No./N° CCC - FMS No./N° VME

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**6.5.3 Contractor's Representative** *(to be completed by the bidder)*

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

**6.6 Payment**

**6.6.1 Basis of Payment – Firm Lot Prices** *(will be filled upon award)*

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot prices, as specified in Annex B for a cost of \$ \_\_\_\_\_. Customs duties are included 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 Terms of Payment**

H1001C (2008-05-12) Multiple Payments  
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/H/H1001C/2>

**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.
  - b. One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

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## 6.8 Certifications and Additional Information

### 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 Quebec.

## 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 2030 (2021-12-02), General Conditions - Higher Complexity - Goods;
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated \_\_\_\_\_.

## 6.11 Insurance

SACC *Manual* clause G1005C (2016-01-28) Insurance - No Specific Requirement  
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/G/G1005C/3>  
SACC *Manual* clause B1501C (2018-06-21) Electrical equipment  
<https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual/5/B/B1501C/2>

## 6.12 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.
- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "Dispute Resolution".

## ANNEX A - REQUIREMENT

### 1. TITLE

MOBILE LABORATORY

### 2. BACKGROUND

During testing, DND requires a mobile laboratory within easy reach to perform mechanical and electronic work, as well as measurements with various interconnected systems. This laboratory will also be used to transport test equipment and all the tools needed for testing. An electronics workshop and a mechanical/energetic materials workshop, both complete and autonomous, must be integrated into the laboratory. It therefore needs to be divided into two independent areas to separate the work of these two trades. The mechanical/energetic materials compartment must include safety features for work in the presence of energetic materials.

### 3. ACRONYMS

CMVSS	Canada Motor Vehicle Safety Standards
CSA	Canadian Standards Association
DND	Department of National Defence
DRDC	Defence Research and Development Canada
GAWR	Gross axle weight rating
GVWR	Gross vehicle weight rating
LED	Light emitting diode
NFPA	National Fire Protection Association
PSPC	Public Services and Procurement Canada
SOR	Statutory orders and regulations
TA	Technical Authority

### 4. APPLICABLE DOCUMENTS AND REFERENCES

AD1: Layout plans (See Appendix 1)

### 5. REQUIREMENTS

#### 5.1 Mobile Laboratory

**Quantity required: 1**

The contractor must provide a mobile laboratory in the form of a closed trailer-type workshop in accordance with the following specifications. **It is acceptable to replace the detailed construction methods and materials with equivalent or superior quality.**

General specifications	Values
Overall exterior dimensions	Overall exterior length: Approx. 8 m (26 ft) - (excluding tongue). Overall exterior width: Approximately 2.6 m (102 in), which is the maximum allowed. Overall exterior height: The interior of the trailer must be at least 84 in high and the overall exterior dimensions are not specified. The contractor must ensure that the overall height complies with legislation in force, a maximum of 4.15 m (13.6 ft).

General	The trailer must be designed for use in adverse weather conditions in the temperature range of -28 to +32 °C (-20 to +90 °F). Maintenance and repair tasks, especially routine maintenance tasks performed by the operator, must be easily accomplished with a minimum of specialized skills and tools.
Protection	Potentially vulnerable areas such as, but not limited to, wiring, stabilizers and axles must be protected by protective plates. All exterior components must be fully protected from road hazards such as water, salt, mud and gravel.
Weight and GVWR	The trailer's GVWR must be between 2,270 kg (5,000 lb) and 6,364kg (14,000 lb). Several manufacturing techniques as well as the use of light materials can allow to manufacture a 26 feet trailer with a GVWR of 14,000 lb.
Transported cargo	The trailer must accommodate the total weight of the equipment to be transported, estimated to be approximately 680 kg (1,500 lb). It consists of the weight of tools in drawers and cabinets in addition to stowed equipment.
Axles and suspension	Both axles must have a capacity of at least 6,600 lbs and be consistent with the GVWR of the trailer. Rubber torsion bar axles must be used. A torsion bar suspension system with a heavy-duty stabilizer system must be provided.
Trailer hitch device	The trailer must be equipped with a heavy-duty 2 5/16 in hitch, The hitch must be equipped with a heavy-duty commercial type anti-theft device that mounts directly to the hitch.
Identification	A stamped plate must be installed in a conspicuous place on the trailer that permanently indicates the following information: 1. Make 2. Model 3. Year 4. Serial number; 5. GVWR 6. GAWR
Wheels and tires	Polished aluminum rims with eight bolts that will be chosen according to the GVWR. Tires with the right rating and with eight or more plies.
Brakes	Electric surge brakes on all four wheels, with seven-pin connectors, must be provided. A hitch breakaway system must be provided. <b>Either disc or drum brakes are acceptable, depending on the best performance between both.</b>
Body construction (Construction)	Body panels must be installed in such a way as to prevent deformation. All metal body components must be made of aluminium.
Body construction (Floor)	The body floor in the compartments (service, electronics and mechanical) must be made of 3/16 in aluminum embossed sheet metal with non-skid finish only and sealed to prevent the entry of moisture.
Interior cladding	Prepainted white 14ga aluminum sheet (.064" / 1.63mm)
Interior Painting	Interior paint colour - white

Exterior paint	The trailer must be painted using standard commercial practices and common materials to provide a durable finish of the required thickness with a smooth appearance free of drips, slumps and orange peel. Matte, polished and chrome surfaces must not be painted. Exterior paint colour - gray.
Body construction (Insulation)	The entire body must be properly sealed, and the walls, doors, <b>underside of the floor</b> and ceiling must be insulated with high-density fiberglass or sprayed insulation providing a minimum R-value of R15.
Body construction (Anchoring)	The floor structure must incorporate anchor points for securing equipment.
Anchor points	The trailer will frequently be used to transport test equipment and other heavy objects to and from test sites. DRDC is looking for a flexible system of attachment and anchoring points to properly secure equipment, including hard plastic containers and straps. The anchors must be made of stainless steel or be rust-proofed. The contractor must provide anchor points for the mechanical shop, electronics shop and on the roof platform. They must be flush with the floor so as not to pose a hazard to users. The location of these anchors will be at the discretion of the contractor and must be included in the fabrication drawings provided for validation by the technical authority.
Towing and lashing points	Provide two rear towing points, placed in such a way and with sufficient strength to allow recovery of the loaded trailer. Provide rail car/platform tie-down points, front and rear, of sufficient strength to secure and transport the loaded trailer on a rail car or flatbed truck.
Protective plate	An embossed or stamped aluminum guard plate with a nominal height of 24 in (61 cm) must be placed across the entire width of the front of the trailer to protect it from gravel. The contractor must use or supply galvanized, zinc-plated or stainless-steel bolts and nuts to protect the trailer from galvanic corrosion.
Roof platform (General)	The trailer must be provided with a full-width roof-mounted working platform of maximum possible length. It must be able to accommodate at least two tripods and a small weather station with two users or more.
Roof platform (Construction)	The roof platform must be provided with a non-slip surface that can be walked on. It must be made of aluminum and must not be painted. The roof must be made of a single sheet of aluminum. The nominal thickness must be at least 0.04 in and seamless. The perimeter of the roof must have an integrated gutter.
Roof platform (Safety)	The platform must be equipped with a retractable guardrail system. The platform must be usable without a safety harness. Bilingual (English/French) warning signs regarding safety and weight restrictions must be posted on the rear exterior wall of the trailer, near the service ladder leading to the roof platform, indicating the maximum weight the platform can safely support.



Roof platform (Grommets)	The roof platform must be provided with two watertight grommets. One must be able to lead the wires from the platform to the mechanical workshop and the other to the electronics workshop.
Electrical system - Trailer - 12 volts (Grounding)	The trailer must be equipped with a 12 V electrical system with negative ground.
Electrical system - Trailer - 12 volts (Trailer wires)	A watertight wiring harness system extending at least 36 in from the plug on the trailer. The trailer must be equipped with a suitable seven-pin trailer connector.
Trailer - Exterior lighting - 12 volts (Protection)	Protective coverings or sleeves where cables are exposed outside the trailer enclosure; LED lighting where applicable and desirable. Wiring must be protected by insulated grommets where it passes through metal.
Electrical specifications (Connectors)	An electrical connector with male connector in a dedicated compartment at floor level, with lockable door on the <b>sidewalk</b> side.
Electrical specifications (Distribution panel)	A circuit breaker panel 110 V - 220 V, 200 A, installed in the central compartment (electronics workshop).
Electrical specifications (Circuit breakers)	The wiring harness must be protected by manually resettable circuit breakers.
Electrical specifications (Code)	Wiring must be colour-coded, numbered and flame-retardant.
Electrical specifications (Protection)	Wiring must be inserted in slotted tubing to prevent abrasion, if necessary, or in plastic sheaths.
Electrical specifications (Pipes)	All 110 V wiring must be installed in dedicated conduits on each side of the trailer. The conduits must be constructed so as to permit the addition of circuits at a later date.
Electrical specifications (Charging)	Marine type batteries must be charged via the dual-function inverter/charger. The main power cable (not the generator starter circuit) must be protected by a marine type fuse of appropriate capacity.
Electrical specifications (Sockets)	Indoors, 110 V duplex receptacles must be installed wherever users need them. Outdoors, four duplex receptacles must be installed. Two duplex receptacles must be installed in each of the three exterior interconnection panels, on each side and on the roof. Each of the electrical outlets must be on an independent circuit, as well as each of the appliances connected to the distribution panels.
Electrical specifications	A switch console must be installed against the curb-side entrance door in the electronics workshop.
Light switches (Circuit breakers)	All switches must be protected by 15 A circuit breakers.
Heating and air conditioning	The unit must be capable of being powered by the generator and parking power. It must have the capacity to heat and cool both workshops. It must have its own independent electrical circuit. The contractor must consider safety standards for working with energetic materials for the mechanical shop compartment and install an explosion-proof heating/cooling system ( <b>class of explosives, division 1.1C</b> ). Additional heaters may be added to supplement the heating/cooling system.
Main trailer compartments	The trailer must be separated into three main compartments: 1. a service compartment at the front, 2. an electronics workshop at the centre and 3. a mechanical/energetic materials workshop at the rear.

<p>1. Service compartment</p>	<p><b>1.1 General</b> Sub-compartments must accommodate a generator in its own compartment, an air compressor in its own compartment, the electrical system and storage. In the service compartment on both sides of the trailer, directly above the generator and air compressor compartments, the contractor must install two automatic 3/8 in diameter compressed air hose reels. The user must be able to access the air outlet from outside the laboratory. Detailed specifications are in the Service compartment (Generator), Service compartment (Air Compressor) and Service compartment (Storage) sections.</p> <p><b>1.2 Dimensions</b> The exact dimensions of the service compartment and its sub-compartments cannot be determined until the contractor has selected the generator, batteries and air compressor.</p> <p><b>1.3 Construction</b> The compartments must be constructed of aluminum and be insulated for sound. The battery compartment must be protected against chemical corrosion resulting from spilled battery acid.</p> <p><b>1.4 Generator</b> The generator (see 5.2) must be mounted in a sliding drawer for easy maintenance. This sliding drawer must be able to open 100% and support a generator. The drawer must have a rated load capacity 15% greater than the weight of the generator. The drawer must be equipped with a spring lock. The generator must be mounted on vibration dampers. All controls and components required for normal operation must be easily accessible when the generator is slid into its compartment. The generator must be installed in a soundproof and watertight compartment located above the trailer frame on the driver's side.</p> <p><b>1.5 Batteries and electrical system</b> The battery and power supply sub-compartment must be accessible from the inside only. This centrally located compartment must be used to store two 12 V glass-fiber mat high-discharge batteries connected in parallel, as well as a battery charger, voltage regulator, and all components required to make the laboratory capable of battery operation. An inverter / battery charger, equipped with an automatic transfer switch, must be installed in this compartment. <b>The inverter capacity must at least match the watt demand for 12V lighting and add 1800 watts for power tool operation (120 volts X 15 amps = 1800W). It is acceptable to replace the batteries with external inverter by an integrated uninterruptible power supply (UPS).</b></p> <p><b>1.6 Air compressor</b> The air compressor must be mounted in a sliding drawer for easy maintenance. The sliding drawer must be able to open 100%. The drawer must have a load capacity rating 15% greater than the weight of the compressor. The drawer must be equipped with a spring-loaded lock. The compressor must be mounted on vibration dampers. All controls and components required for normal operation must be easily accessible when the compressor is slid into its compartment. The compressor must be installed in a soundproof and watertight compartment located above the frame of the trailer on the curb side.</p>
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	<p><b>1.7 Storage</b> The remainder of the service compartment space must be used for equipment storage or as workspace depending on the contractor 's final layout.</p> <p><b>1.8 Automatic lighting switches</b> All sub-compartments must be equipped with automatic light switches.</p>
2. Electronics workshop compartment	<p><b>2.1 General</b> Must be designed for a workshop dedicated to electronics. The shop must be equipped with a workbench, wall-mounted folding worktables and cabinets for electronic tools and test equipment.</p> <p><b>2.2 Dimensions</b> The surface area must constitute about 40% of the surface area of the two workshops combined. (See DA1)</p> <p><b>2.3 Cabinets</b> The shop must be equipped with storage cabinets above the workbench to store tools and other equipment.</p>
3. Mechanical workshop compartment	<p><b>3.1 General</b> The mechanical workshop compartment must be designed for a dedicated workshop for mechanics and work in the presence of energetic materials. The workshop must be equipped with a workbench, wall-mounted folding worktables and cabinets for mechanical tools and test equipment.</p> <p><b>3.2 Dimensions</b> The surface area must be about 60% of the area of the two workshops combined. (See DA1)</p> <p><b>3.3 Cabinets</b> The shop must be equipped with storage cabinets above the workbench to store tools and other equipment.</p> <p><b>3.4 12 V and 110 V switches, plugs and fixtures</b> The light fixtures in the mechanical workshop compartment must be dust-proof. The type of fixture must be robust and designed for transport, not for a static location, to avoid falling during transport. Switches and electrical outlets must be explosion-proof.</p>
Rear access ramp (Capacity)	The rear ramp must be made entirely of aluminium. The rear ramp must be reinforced to accept a 400 lb load that is rolled into the trailer.
Rear access ramp (Dimensions)	Nominal dimensions must be 55 in wide x 80 in high.
Rear access ramp (Construction)	Molded rubber door seals with a gutter above the door must be provided. A mechanical device to assist the user in raising and lowering the ramp in a controlled manner must be provided. Four welded aluminum hinges with 10-gauge satin-finish steel profile and a 3/16 in door sill must be provided. The ramp must be insulated and have the same coating as the interior. The railing surface must be coated with a non-slip surface.
Rear access ramp (Locks)	Two large compression locks on the right and left sides of the boom door, capable of receiving padlocks, must be provided.

Doors (General)	The main access doors must be on the curb side—one for the electronics shop and one for the mechanical shop. The entrance doors must be equipped with a two-stage twist lock and provide two sets of keys for each lock installed on the trailer. A unique key must be provided for each door.
Doors (Windows)	The entrance doors must be equipped with a fixed Lexan window or equivalent, in the upper section, with a removable window cover.
Doors (Construction)	<p>The doors must be constructed of 3/16 in thick 5052 aluminum sheets in one piece. The interior of the doors must be clad with fiberglass reinforced plastic panels, such as those used in the construction of recreational vehicles.</p> <p>The outside of the access door must be equipped on the outside and inside with an embossed aluminum door bottom plate with a maximum height of 16 in. The overall nominal thickness must be 2 in. The doors must be equipped with 2 ½ in wide-open stainless-steel piano hinges with ¼ in stainless steel rod. The hinges must be bolted to the door jamb with ¼ stainless steel bolts at 4 in centres.</p> <p>Specific extruded 6061-T6 aluminum studs must be welded into the door openings, complete with integral automotive-style tubular gaskets to prevent moisture entry. A sturdy system to retain open doors must be installed for each door.</p>
Windows (General)	The windows must be installed in such a way as to optimize brightness inside the workshops. The exact quantity of windows required is not specified. At least two on each side of the trailer with one window on each side of the two workshops.
Windows (Construction)	Provide sliding windows with mosquito screens. The dimensions of each of them must be identical and fit in with the final design. The windows must be of high quality and be lockable. The windows must have insulating glass. The window glass must have a light to medium tint.
Service ladder	A sturdy, permanently attached aluminum ladder must allow access to the roof from the rear of the trailer. The ladder must be made of non-slip aluminum rungs and allow safe access to the roof. The ladder must not be painted. The ladder must have a telescopic or hinged section that allows the ladder to be extended to the ground. The ladder handles must extend above the roof line to give the user a safe and comfortable grip when reaching the top of the ladder. The handles must be retractable to reduce the overall height of the trailer.
Air compressor (Accessibility)	The contractor must note that the user will require compressed air from inside each shop, from inside the trailer. Compressed air lines must be routed through piping on both sides of the trailer and have compressed air outlets at the workbenches/workstations. Each of the air outlets must be equipped with independent shut-off valves. The user must also have access to compressed air through the interconnection panels on the driver and sidewalk sides of the trailer.

Electrical system - Trailer - 12 volts (Lights)	The trailer must be equipped with 12 V ceiling lights controlled by switches for each compartment. The brightness must be adjustable and independent for each workstation. The contractor must determine the number and must ensure that the compartments are well lit using only the 12 V lamps. <b>The 2 workshops must include 120VAC and 12VDC luminaires. The goal is to be able to work there for a short period of time, approximately 1 hour without a generator. The luminosity of the 12VDC must be moderate, i.e. 30 lumens per square foot. It is important to choose the right location for safe movement and work. All other compartments can only be 12VDC. For the 120VAC fixtures in the 2 workshops, the luminosity must be abundant, i.e. 50 lumens per square foot. They don't need to work with the batteries. The 12V lamps must work on batteries only (or UPS).</b>
Trailer - Exterior lighting - 12 volts (Protection)	Protective coverings or sleeves where cables are exposed outside the trailer enclosure; LED lighting where applicable. Wiring must be protected by insulated grommets where it passes through metal.
Outdoor work lights	Eight LED work lights must be installed outside the trailer. Two must be located behind the trailer in the upper corners. Two must be located on the driver's side in the upper corners and two on the curb side also in the upper corners. They must be adjustable from left to right and tiltable. The lights must be identical in fit, form and function to those used on emergency vehicles. Light switches for each side of the trailer must be installed near the doorway of the interior ramp. There must be two work lights mounted under the canopy to provide lighting when the canopy is extended. The lights must be CSA approved.

## 5.2 Accessories

The contractor must provide the following accessories for requirement 5.1:

Description	Required quantity
Portable 20 lb dry powder, nitrogen/potassium bicarbonate cartridge fire extinguishers. Wall mounted, with appropriate fire station markings and symbols. The fire extinguishers must be located in each shop in a location to be determined by the contractor and according to the proposed layout. They must appear on the drawings provided for approval by the TA. Dry chemical fire extinguishers must conform to ANSI/UL 299 CAN/ULC S504 certification. The fire extinguishers must be secured in place so that they will not come off when the trailer is moving or when the trailer brakes abruptly. Installations must comply with NFPA Code 10 for fire extinguisher installation.	2
Type C first aid kits. They must be located in each shop at a location to be determined by the contractor and according to the proposed layout. They must appear on the drawings provided for approval by the TA. The first aid kits must comply with the <i>Canada Occupational Health and Safety Regulations</i> (SOR/86-304). The first aid kits must be securely fastened to the wall so that they will not come loose when the trailer moves or brakes abruptly.	2

Sturdy coat racks that can hold the clothes of at least two people must be installed. They must be located in each of the shops at a location to be determined by the contractor and according to the proposed layout. They must appear on the drawings provided for approval by the technical authority (TA).	2
3/8 in diameter automatic hose reels for compressed air. <b>The length must be 25ft and spring loaded.</b> One must be located above the generator compartment and the other above the air compressor. Each hose reel must have quick connections for tool connection to the air. The exact location will be determined by the contractor and according to the proposed layout. They must appear in the drawings provided for approval by the TA.	2
A workbench must be designed for electronic work and be scalable according to the needs of DRDC. The top of the workbench must be made of hardwood. DRDC does not intend to provide the bidder with specific details regarding location and dimensions. The contractor will have to decide after an analysis to determine the optimal load distribution. The final location and final dimensions must be approved by the DRDC TA.	1
Storage cabinets above the workbenches to hold tools and other equipment. DRDC does not intend to provide the bidder with specific details about location and dimensions. The contractor must decide after an analysis to determine the optimum load distribution. The final location and final dimensions must be approved by the DRDC TA. Each drawer must be capable of supporting a maximum load of 440 lb. The cabinets must be equipped with drawers on 100% extendible rollers to allow for smooth opening up to the maximum load of 440 lb. The drawers must have full-height (100%) side walls to prevent items stored in the drawers from falling to either side or behind the drawer. The drawers must have ergonomically designed handles that span the full width of the drawer so that when the drawer is closed, the handle is flush with the frame and nothing protrudes. The handles must be equipped with a locking system to prevent the drawers from opening by themselves. The cabinets must be equipped with hinged plastic drawer handle covers and label holders that can be easily opened to facilitate label replacement. The cabinet system must be supplied with labelling software that can be downloaded from the manufacturer's site at no cost to DRDC. The cabinets must be equipped with an interlocking system designed to prevent them from tipping over. When a drawer is fully open, all other drawers must be locked in the closed position so that the additional weight that would be caused by opening other drawers cannot cause the cabinet to tip forward. The suspension system must incorporate a guide rail that is fixed under the drawer frame to provide additional stability and strength. The system must be supported on quiet bearings and have the following characteristics: strength, resistance, dimensional stability, fatigue resistance, low wear and low friction for quiet and smooth operation. The original manufacturer must provide a lifetime warranty for bearings and the drawer suspension systems.	To be determined
A workbench must be designed for mechanical work and be modular according to the needs of DRDC. The top of the workbench must be made of stainless steel and connected to a grounding system such as the one used for work in the presence of energetic materials. Other antistatic accessories must be able to be connected to this system, such as clamps and bracelets for working with energetic materials. DRDC does not intend to provide the contractor with specific details regarding location and dimensions. The contractor will have to decide after an analysis to determine the optimal load distribution. It must appear in the drawings provided for approval by the TA.	1



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Buyer ID - Id de l'acheteur  
MTA555  
CCC No./N° CCC - FMS No./N° VME

A manually adjustable tongue jack with a capacity of <b>14,000 lb</b> or as recommended on the trailer tongue and the final GVWR of the trailer.	<b>1</b>
A spare tire mounted on a polished aluminum rim. The spare tire must have a hard protective cover. It must be equipped with an anti-theft device. It must be mounted on a trailer roll bar or other suitable location.	<b>1</b>
Sturdy mudguards.	<b>2</b>
A storage compartment on the roof, recessed into the roof structure, must be installed. The dimensions of the roof storage compartment must be as follows: length: 24 in; width: 18 in; depth: maximum possible. The storage compartment must be made of aluminum, equipped with watertight joints and have an integrated lock. The roof storage compartment must be secured to the roof without having to be drilled all the way inside the trailer. The exact location will be determined by the contractor and its proposed layout. It must appear in the drawings provided for approval by the TA.	<b>1</b>
Retractable (collapsible) access steps for each of the two doors in a purpose-built storage compartment located below the interior floor level. No lock is required. <b>Custom made stainless steel steps with non-slip MESH finish are also acceptable. They must have a dedicated space for their storage.</b>	<b>2</b>
A commercial-grade, robust, quiet-running gasoline generator of at least continuous 6.5 kW connected to the trailer's electrical system. It must be able to meet the needs of the trailer in addition to generating power to operate power tools at the same time. The generator must and come with a five-year or 1,000-hour warranty. The generator must be certified by the CSA and have been factory tested for two hours at full load. <b>Electric start is required. A remote start/stop control panel inside the trailer is not required. An integrated generator is accepted but not required. If an integrated generator is installed, the slideout tray is not required. A minimum runtime of 4 hours is required.</b>	<b>1</b>
A 10 ft removable flexible stainless-steel hose must be provided to keep exhaust away from the trailer. The hose must be stowable in the generator compartment.	<b>1</b>
An air compressor that provides a minimum prescribed flow rate of at least 3.4 cfm at 90 psi that will be connected to both reels.	<b>1</b>
Access panels in the electronics and mechanical workshop must be installed. They must connect the exterior and interior of the trailer. Each panel must have a grommet and sleeve to prevent water from entering the trailer or a deflector above it to prevent inward water runoff. The dimensions of the panels must be 12 in X 12 in. The door must be equipped with a lock.	<b>2</b>

An intercom system to communicate between the two workshops as well as outside the trailer. The system must include a waterproof outdoor speaker to be installed at a specific location to be determined by the contractor.	1
An electrically operated canopy, mounted on the sidewalk side wall of the trailer with a nominal length of 21 ft.	1
Two red safety beacons must be installed on top of the trailer (one at each end) and must be visible from all sides. The flashing lights must be able to be activated from inside the mechanical workshop.	2
Manually operated levelling stabilizers that can support the full weight of the trailer. The contractor must provide a battery-powered drill type tool powerful enough to operate the stabilizers and cranks for manual operation. A spirit level system must be included to facilitate the leveling of the trailer.	4
Hazardous material sign holders on all four sides of the trailer. The contractor is requested to consult the DRDC Technical authority (TA) for DRDC specifications regarding the installation.	4
A license plate holder must be provided at the rear.	1
A briefcase must be provided and it must be installed at the front of the mechanical or electronics workshop. <b>The document holder must be rigid and able to hold a 30 page 8.5" x 11" document.</b>	1
A 25-foot cable connecting the generator to the trailer must be provided, and it must be connected to the parking power input on the entrance panel.	1

### **5.3 Certificate of Attestation**

At the delivery, the contractor must provide a certificate of attestation that the trailer complies with all laws, regulations and industry standards governing manufacturing, safety, noise and pollution levels in force in Canada at the time of manufacture. The trailer must bear a safety mark certifying that the trailer meets the provisions of the Canada *Motor Vehicle Safety Act* in effect at the date of manufacture of the trailer. The contractor must provide a certificate attesting that all ferrous metal parts are protected against rust using an industry standard rustproofing treatment.

### **5.4 Training**

Once the trailer is delivered, the contractor must provide a half-day (3.5 hour) teleconference familiarization session no later than one month after delivery of the trailer. The training must cover safe towing procedures, operation of trailer systems, maintenance, cleaning, tire changes and servicing.

### **5.5 Calendar**

The contractor must provide a work schedule no later than one week after contract award.

### **5.6 Drawings**

The contractor must provide, no later than one month after contract award a complete set of as-built drawings prior to fabrication and complete "as-built" drawings, including a sectional view of the trailer and showing all manufactured and installed components with the original manufacturer's part numbers and bill of materials. The supplier must provide a detailed list of materials used and complete colour wiring diagrams for 12 V and 120 V AC circuits. The final manufacturing drawing from the selected supplier must be approved prior to commencing trailer manufacturing. He must also provide a list of standard tools recommended for the tasks to be performed by DRDC, including, but not limited to, maintenance, tire changes and lubrication.



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## **5.7 User's Manual**

An operator's manual in English and/or French must be submitted with the delivery of the trailer and must include the following items:

- Warnings and safety notices.
- A list of all required tolerances, torques, fluid volumes and special tools required.
- A list of daily user maintenance checks and instructions which includes a list of standard tools required.
- A list of replacement parts for preventive maintenance.

## **6. DELIVERABLES**

- 6.1 The contractor must deliver all items referred to in 5.5.
- 6.2 The contractor must deliver all items referred to in 5.6.
- 6.3 The contractor must deliver a complete mobile laboratory as described in 5.1.
- 6.4 The contractor must deliver all items referred to in 5.2.
- 6.5 The contractor must provide the certificates/attestations referred to in 5.3.
- 6.6 The contractor must provide training as specified in 5.4.
- 6.7 The contractor must deliver all items referred to in 5.7.

## **7. WORKING LANGUAGE**

Communications, meetings and documentation may be in French and/or English, at the contractor's choice.

## **8. DELIVERY ADDRESS**

Defence Research and Development Canada - Valcartier Research Centre  
Delivery in the parking lot  
2459 Route de la Bravoure  
Quebec City, Quebec.  
G3J 1X5  
Canada

## **9. TRAVEL**

The contractor is not required to travel.

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## **10. MEETINGS**

- 10.1 The contractor must arrange a teleconference with DRDC - Valcartier Research Centre and the PSPC representative one week after contract award to ensure that the contractor has a clear understanding of the requirements and that DRDC is notified of any unforeseen technical problems that could increase the project's risk regarding technical specifications and costs or any other unforeseen events. The contractor must also deliver deliverable 6.1.
- 10.2 The contractor must arrange a teleconference one month after award to deliver deliverable 6.2.

## **11. GOVERNMENT-SUPPLIED MATERIAL (GSM)**

None

## **12. GOVERNMENT-FURNISHED EQUIPMENT (GFE)**

None

## **13. SPECIAL CONSIDERATIONS**

None



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## ANNEX B - BASIS OF PAYMENT

ITEM	DESCRIPTION	FIRM LOT PRICES*
1	Mobile laboratory, as described at Annex A	\$
2	Manuals, documents et Certificates	\$
3	Training	\$
4	Preparation, delivery to Valcartier, handling and all other fees	\$
TOTAL (excluding applicable taxes)		\$

\*Currency (if other than CAD\$): \_\_\_\_\_

\* Custom duties included

## ANNEX C – MANDATORY TECHNICAL CRITERIA

MANDATORY TECHNICAL CRITERIA		REFERENCE
<b>MC1</b>	<p>The bidder must demonstrate its expertise with at least two similar projects of a value of at least 50,000.00\$ in the last 10 years. These projects will serve to demonstrate that the bidder or its subcontractor(s) has expertise in the design and manufacture of trailers of equivalent or greater complexity. <u>In case where projects have been carried out by subcontractors, the bidder must specify this information in their bid.</u></p> <p>This criterion must be demonstrated with the following information: Project description: <u>with written explanations accompanied by technical specifications</u> (only photo/visual aids documentation will not be accepted for evaluation). The bidder must also provide the following details: <b>the value</b> of each of the projects and <b>the year</b> of its completion (see the model table proposed below to help answer this criterion).</p>	

### Proposed model to answer the criterion MC1

Bidder must include with their bid the following information for each project;		Project 1
(i)	Date of its completion	
(ii)	Project Value	
(iii)	<p>Written description including technical specifications: * Photos or visual aids may be provided, but <u>these must be accompanied</u> by a written description and technical specifications of the project for evaluation purposes.</p>	See reference pages:

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Bidder must include with their bid the following information for each project;		Project 2
(i)	Date of its completion	
(ii)	Project Value	
(iii)	Written description including technical specifications: * Photos or visual aids may be provided, but <u>these must be accompanied</u> by a written description and technical specifications of the project for evaluation purposes.	See reference pages:

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## ANNEX D – QUESTIONS/ANSWERS

### **Question (ref. – Rear Bumper)**

The steel ICC bumper seems to imply a steel trailer frame, but with 3/16" checkerplate flooring being required two line items below, and all-aluminum body construction being required one line item below, it seems that an all-aluminum frame would meet this project's requirements much better in terms of longevity, corrosion-resistance and a lightweight result. **Please clarify if an aluminum trailer frame is required or if a steel trailer frame is the minimum requirement.**

### **Answer**

An aluminum frame is acceptable.

### **Question (ref. – Top section)**

Do you have any dimensions for the 400lb capacity sliding drawers, and how many you would like? It's a little hard to envision what is being requested. It would appear on the print there's 4 in the mechanical workshop, and 3 in the electronic workshop.

### **Answer**

There are no predetermined dimensions or quantities. Everything depends on the final configuration and weight distribution. The goal is to maximize storage space by having solid and durable drawers. It is possible to add other drawers of smaller capacity to store lighter and smaller tools.

### **Question : (Ref. ANNEX A – REQUIREMENT)**

Explosion proof air conditioner/heating, lighting and outlets and switches clarification needed:  
What is hazardous condition classification. Is it inside the mechanical/energetic materials workshop only?  
Also, do you have any other implications such as wall/floor thickness?

### **Answer :**

Explosives class, divisions 1.1C. This only applies to the electrical equipment in the mechanical/energy area. There is no specification for wall and floor thickness.

### **Question : (Ref. ANNEX A – REQUIREMENT - 5.1 Mobile Laboratory)**

Where detailed construction methods and materials are specified, can we have some latitude to use our know methods and materials?

### **Answer :**

Yes, it is acceptable to replace the detailed construction methods and materials with equivalent or superior quality.

### **Question : (Ref. ANNEX A – REQUIREMENT - 5.1 Mobile Laboratory - 1. Service compartment - 1.4 Generator)**

Generator compartment states soundproof. This is not possible. Is sound-insulated acceptable?

### **Answer :**

Sound-insulated is acceptable.

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**Question : (Ref. ANNEX A – REQUIREMENT - 5.2 Accessories)**

Regarding the requested 6.5 kW gas generator, We believe a single 7 kW gas generator is not sufficient for 2 @ air conditioners and or heaters, air compressor (if not gas-powered), laptops, monitors, and other unknown CFE they might be using. Would you please reconsider your required generator capacity? Please note that if larger generator is required, they are typically Diesel-fueled, not gas.

**Answer :**

Even if the capacity is at its limit, we do not reconsider the requirements.

**Question : (Ref. ANNEX A – REQUIREMENT)**

According to the RFP, the maximum allowable trailer GVWR is 12,000 lb. We want to ask you to increase the permissible GVWR from 12,000 lb to **14,000 lb**.

**Answer :**

The GVWR is increased to 14,000 lb.

For the axles, they must have a capacity of at least 6,600 lbs and be consistent with the GVWR of the trailer.

The other questions/answers have been integrated in the document.



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**ANNEX E - COMPLETE LIST OF COMPANY BOARD OF DIRECTORS**

**NOTE TO BIDDERS:**

**WRITE ALL DIRECTOR'S FULL NAMES IN BLOCK LETTERS**

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**PROCUREMENT - BUSINESS NUMBER (PBN):** \_\_\_\_\_