



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Réception des soumissions - TPSGC / Bid Receiving
- PWGSC

1550, Avenue d'Estimauville

1550, D'Estimauville Avenue

Québec

Québec

G1J 0C7

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

TPSGC/PWGSC

601-1550, Avenue d'Estimauville

Québec

Québec

G1J 0C7

Title - Sujet Portable data acquisition system	
Solicitation No. - N° de l'invitation W7701-186689/A	Date 2017-12-29
Client Reference No. - N° de référence du client W7701-186689	
GETS Reference No. - N° de référence de SEAG PW-\$QCL-025-17300	
File No. - N° de dossier QCL-7-40207 (025)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2018-02-12	Time Zone Fuseau horaire Heure Normale du l'Est HNE
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Lemay, Hélène	Buyer Id - Id de l'acheteur qcl025
Telephone No. - N° de téléphone (418) 649-2974 ()	FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: R&D pour la Défense Canada-Valcartier DRDC-Defence R&D Canada-Valcartier Bâtisse 53 2459, route de la BRavoure QUEBEC Québec G3J1X5 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Requirement

The requirement is detailed at article 6.2 of the Resulting Contract Clauses section.

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>) 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.

2.1.1 SACC Manual Clauses

B1000T (2014-06-26) Condition of material – Bid

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.

Your proposal can be transmitted by fax to # 418-648-2209 or by mail to the following address:

Public Works and
Government Services Canada (PWGSC)
601-1550 D'Estimauville Avenue
Quebec City, Quebec, Canada, G1J 0C7

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 the Province of 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.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

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

Section I: Technical Bid (1 hard copies)

Section II: Financial Bid (1 hard copies)

Section III: Certifications (1 hard copies)

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

Canada requests that Bidders follow the format instructions described below in the preparation 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 – Annex B. The total amount of Applicable Taxes must be shown separately.

3.1.1 Exchange Rate Fluctuation

[C3011T](#) (2013-11-06), Exchange Rate Fluctuation

3.1.2 SACC Clause

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

Each bid will be reviewed to determine whether it meets the mandatory requirements of the bid solicitation. Any element of the bid solicitation identified with the words "must" or "mandatory" is a mandatory requirement.

Bids that do not comply with each and every mandatory requirement will be declared non-responsive and be disqualified.

Although the bidders must proposed products that meet all the specifications and technical components described in the Annex A, at the closure date, bids will be evaluated on the technical requirements of mandatory technical criteria and point rated technical criteria.

4.1.1.1 Mandatory Technical Criteria

Any bidder must submit the technical specifications with its bid, or any official document relating to the proposed equipment, in order to demonstrate that the proposed equipment meets **all technical specifications** listed at the table below.

Any proposal that does not clearly demonstrate compliance with each of the technical specifications listed in the table will be considered non-responsive. Simply stating that the criteria are met is not sufficient.

Bidders should include the precise location of the information for each mandatory criteria in his reference material.

Table of Technical Compliance – Mandatory Criteria

	CRITERIA	YES	NO	Bidder's Specifications (should indicate the reference to the technical specifications of the proposed equipment or indicate the exact information)
MT1	High speed: recording 6 (or more) analog channels using at least 16 bits at 2 MS/s or more			
MT2	Data transfer rate of at least 100 MB/s on an SSD disk of at least 480 GB			
MT3	Autonomous: no need for external PC to configure or control it.			
MT4	Power supply: 110 VAC, 60 Hz and battery with minimum of two-hour capacity. The batteries must physically be in the system (not in a separate box).			
MT5	Have at least 12 independently configurable channels for readings (tension, bridge, IEPE for ICP sensor).			
MT6	Have at least 10 channels for direct readings (without using an external conditioner) by the IEPE ICP sensor.			
MT7	Microsoft® Windows® 7 operating system			
MT8	Built-in display screen of at least 17" HD 1920 x 1080 pixels			
MT9	Have at least two Ethernet ports.			
MT10	Module replaceable without having to disassemble the entire system			
MT11	Trigger acquisition with a TTL signal or on a specific channel			
MT12	Recording channels until a second before triggering (pre-trigger)			
MT13	Stopping acquisition after a specified time period (post-trigger)			
MT14	Acquisition software included (as per the Statement of Requirement)			

4.1.1.2 Point Rated Technical Criteria

Each bid meeting all of the mandatory technical criteria, will be evaluated and noted in accordance with the point rated evaluation criteria, as assets and detailed below.

Table of Technical Compliance – Point Rated Criteria (Assets)

	Description	Definition	Points	Score
RC1	Compatibility with TRION card	The acquisition system recognizes and uses TRION cards	30	
RC2	Number of extra slots	7 slots 1 point for each additional slot (max 5)	0 5	
RC3	Solid State Disk (SSD) capacity	512 GB 750 GB or more	10 20	
RC4	RAM memory	4 GB 8 GB 16 GB	10 20 30	

4.1.2 Financial Evaluation

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

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.

4.2 Basis of Selection – Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation, including Annex A- Requirement; and;
 - b. meet all mandatory criteria.
2. Bids not meeting the requirements of Annex A will be declared non-responsive.
3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 60 % for the technical merit and 40 % for the price.

4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 60 %.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 40 %.
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.
7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.
8. In the event that more than one responsive bid obtains the same combined score for Technical Merit and Price, the bid with the highest score for the Technical Merit will be recommended for award of the contract.

4.2.1 Example of Calculation

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 60/40 ratio of technical merit and price, respectively. The total available points equals 85 and the lowest evaluated price is \$90,000.00

See table on next page

		Bidder # 1	Bidder # 2	Bidder # 3
Overall Technical Score		30/85	50/85	85/85
Bid Evaluated Price		90,000\$	110,000\$	130,000\$
Calculation	Technical Merit Score	$30/85 \times 60 = 21.18$	$50/85 \times 60 = 35.29$	$85/85 \times 60 = 60$
	Pricing Score	$90,000/90,000 \times 40 = 40$	$90,000/110,000 \times 40 = 32.73$	$90,000/130,000 \times 40 = 27.69$
Combined Rating		61.18	68.02	87.69
Overall Rating		3e	2e	1er

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 [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 with its bid the required documentation, as applicable, 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 [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](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969) website (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969).

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

5.2.3 Bidder certifies that All Equipment is "Off-the-Shelf"

Any equipment bid to meet this requirement must be "off-the-shelf" (unless otherwise stated in this bid solicitation), meaning that each item of equipment is commercially available and requires no further research or development and is part of an existing product line with a field-proven operational history (that is, it has not simply been tested in a laboratory or experimental

environment). If any of the equipment bid is a fully compatible extension of a field-proven product line, it must have been publicly announced on or before the bid closing date. By submitting a bid, the Bidder is certifying that the entire equipment bid is off-the-shelf.

5.2.4 OEM Certification (Annex C)

- (a) Any Bidder that is not the Original Equipment Manufacturer (OEM) for every item of hardware proposed as part of its bid is required to submit the OEM's certification regarding the Bidder's authority to provide and maintain the OEM's hardware, which must be signed by the OEM (not the Bidder). **(Annex C)**

No Contract will be awarded to a Bidder who is not the OEM of the hardware it proposes to supply to Canada, unless the OEM certification has been provided to Canada. Bidders are requested to use the OEM Certification Form included with the bid solicitation. Although all the contents of the OEM Certification Form are required, using the form itself to provide this information is not mandatory. For Bidders/OEMs who use an alternate form, it is in Canada's sole discretion to determine whether all the required information has been provided. Alterations to the statements in the form may result in the bid being declared non-responsive.

- (b) If the hardware proposed by the Bidder originates with multiple OEMs, a separate OEM certification is required from each OEM.
- (c) For the purposes of this bid solicitation, EOM means the manufacturer of the hardware, as evidenced by the name appearing on the hardware and on all accompanying documentation.

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

There is no security requirement applicable to this contract.

6.2 Requirement

The Contractor must supply and deliver one (1) Data Acquisition System, in accordance with the Requirement described at Annex "A".

6.2.1 Condition of Material - Contract

The Contractor must provide material that is new production of current manufacture supplied by the principal manufacturer or its accredited agent. The material must conform to the latest issue of the applicable drawing, specification and part number, as applicable, that was in effect on the bid closing date.

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

2030 (2016-04-04), General Conditions – Higher complexity - Goods, apply to and form part of the Contract.

6.3.2 Supplemental General Conditions

4001 (2015-04-01), Hardware Purchase, Lease and Maintenance

4003 (2010-08-16), Licensed Software

4004 (2013-04-25), Maintenance and Support Services for Licensed Software

6.4 Term of Contract

6.4.1 Period of the Contract

The contract period is two years from the date of contract award.

6.4.2 Delivery Delay

All the deliverables must be received on or before six (6) weeks after contract awarded.

6.4.3 Optional good

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Hélène Lemay
Title: a/ Supply team leader
Public Works and Government Services Canada
Address: 1550, D'Estimauville Ave., Quebec, QC. G1J 0C7
Telephone: 418-649-2974
Facsimile: 418-648-2209
E-mail address: Helene.Lemay@pwgsc-tpsgc.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: (will be added at the contract)

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 Client Administrative Authority

The Client Administrative Authority for the Contract is: (will be added at the contract)

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

The Client Administrative Authority must receive the original invoice. Any request for payment must be addressed to the Client Administrative 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 *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 Limitation of Price

SACC Manual Clause C6000C, (2017-08-17) Limitation of Price

6.6.3 Terms of payment

SACC Manual Clause H1001C, (2008-05-12) Multiple Payments

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.

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 the Province of 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 supplemental general conditions 4001, (2015-04-01) Hardware Purchase, Lease and maintenance;
- c) the supplemental general conditions 4003, (2010-08-16) Licensed Software
- d) the supplemental general conditions 4004, (2013-04-25) Maintenance and Support Services for Licensed Software
- e) the General Conditions 2030 (2016-04-04) Higher Complexity - Goods;
- f) Annex A, Requirement;
- g) Annex B, Basis of payment;
- h) Annex C, Certification and Bidder Forms;
- i) the Contractor's bid dated _____

6.11 **SACC Manual Clauses**

G1005C	2016-01-28	Insurance
B1501C	2006-06-16	Electrical Equipment
B7500C	2006-06-16	Excess Goods
D9002C	2007-11-30	Incomplete Assemblies

6.12 **Inspection and Acceptance**

The Project Authority is the Inspection Authority. All reports, deliverable items, documents, goods and all services rendered under the Contract are subject to inspection by the Inspection Authority or representative. Should any report, document, good or service not be in accordance with the requirements of the Statement of Work and to the satisfaction of the Inspection Authority, as submitted, the Inspection Authority will have the right to reject it or require its correction at the sole expense of the Contractor before recommending payment.

6.13 **Shipping Instructions - Delivery at Destination**

Goods must be consigned to the destination specified in the Contract and delivered DDP Delivery Duty Paid; Defence Research and Defence Canada, 2459 de la Bravoure Road, Building 53, Quebec City, QC G3J 1X5, Canada, Incoterms 2000 for shipments from commercial contractor.

ANNEX « A »

STATEMENT OF REQUIREMENT

At contract award, this section will be adjusted according to the winning bidder proposition. Only the features proposed by the winning bidder will be kept in the final contract.

1. TITLE

HIGH-SPEED DATA ACQUISITION SYSTEM

2. BACKGROUND

We need to purchase another data acquisition system to complement the existing one (DEWE2-A7) to meet the needs of the increased capacity of the Ballistics Laboratory, the Propulsion Laboratory (project N.00.8004.17.6) and the Tri-Sonic Wind Tunnel Laboratory, as well as for use with respect to shooting range testing.

3. ACRONYMS

DRDC	Defence R&D Canada
SOR	Statement of Requirements
TA	Technical Authority
IEPE	Integrated Electronic Piezoelectric-type sensor
ICP	IEPE sensor compatible with the technology manufactured by PCB Piezotronics Inc.

4. APPLICABLE DOCUMENTS AND REFERENCES

AD1: N.00.8004.17.06

5. Requirement

Requirements definition: DRDC Valcartier wishes to purchase a second system that is identical or equivalent to DEWE2-A7. The new system must be compatible with the Dewetron DEWE2-A7 so that the two systems can be connected, and we can have a bank of interchangeable modules. This system will be used to collect data for many scientific and technological tests captured by pressure sensors (static and dynamic), strain gauge, pressure gauge, thermocouple, or other devices to measure speed, time, angles, distances, light intensity and mass.

5.1 Data acquisition system

Any interested supplier must demonstrate by way of a statement of capabilities that its product/matériel/system (as appropriate) meets the following requirements:

High-speed: Recording on 6 analog channels (or more) on at least 16 bits to 2 ms/s or more.

Data transfer rate of at least 100 MB/s on an SSD hard drive of at least 480 Gbyte.

Autonomous: No external PC required to configure and control it.

Power supply: 110 v AC 60Hz and battery with autonomy of at least two hours. The batteries must be physically in the system (not in a separate box).

Have at least 12 independently configurable channels for reading (voltage, bridge, IEPE for ICP sensor).

Have at least 10 channels for direct reading (without the use of external conditioner) IEPE for ICP sensor.

Microsoft Windows®7 Operating System.

Integrated screen of at least 17"HD 1920 x 1080 pixels.

2 Ethernets ports

Replaceable module without having to disassemble all system

Launching of the acquisition (trigger) with a sign TTL or on a specific channel (front, level).

Recording of channels until one second before launching (pretrigger)

Stop of the acquisition after a period of time predetermined (Post - trigger).

Data acquisition software included: The program must be able to:

Control the system of acquisition by using the characteristics of items 5.1.1 - 5.1.13.

Process present and previous data, export data in CSV format and text.

5.2 Data acquisition system

In addition to the mandatory criteria, the Contractor must supply a data acquisition system with the following characteristics:

1x PCIe, 1x interface

7x USB ports, 2x Firewire 1394a

1x DVI output, AUDIO interface.

Maximum size: 50 cm x 25 cm x 30 cm

Maximum weight: 30 kg

7 interchangeable slots for user modules; the modules must use the same synchronization clock

Connection with a DEWE2-A7 system in master-slave mode

Portable acquisition system (The system comes with a carrying case and is easily transported by one person.)

All hard disk / SSD must be removable from the data acquisition system without tool.

5.3 Modules

Contractor must provide the following modules for item 5.2:

Module with at least six channels:

16-bit resolution, simultaneous sampling, 2 ms/s per channel

Measurement mode: voltage, current, IEPE for ICP sensor (4/8 mA @24v)

2nd, 4th, 6th order, programmable low pass filter; 0.16 Hz high pass filter

Programmable voltage ranges from ± 5 mV to ± 100 V

1500V Insulation

Connectors: Insulated BNC sockets

Modules with at least eight channels:

24-bit resolution, simultaneous sampling, 204.8 ms/s per channel, antialiasing filters

77-kHz DC bandwidth

Independent measurement modes for every channel: bridge, voltage, IEPE, resistance, temperature and current

Programmable excitation voltage of 0–13 VDC, independent for each channel

Programmable excitation voltage of 200 μ A to 25 mA, independent for each channel

DC or AC coupling, 4 high-pass filters of 0.16, 0.5, 3.4 and 10 Hz

Bridge input: Full bridge sensors, $\frac{1}{2}$ and $\frac{1}{4}$

Input voltage: Programmable range between ± 10 mV and ± 10 V

Differential inputs or single termination

Temperature: Pt100, Pt200, Pt500, Pt1000 or Pt2000 sensors

Full functionality of self-checking-and TEDS support

Connectors: 8 x RJ-45 sockets

Digital module

8 input channels and 8 output channels, TTL with 30 V protection

DB25 connector

4 TTL counters / for 4 A, B, Z encoders with LEMO ECG.1B.307.cll connector

2 x 2-metre cables terminated at one end for LEMO connector (fit with ECG.1B.307.cll)

32-bit resolution, 80 MHz, 10 ppm accuracy

Thermocouple module of 8 channels

Thermocouple reading of types: K, J, T, E, R

12 samples / second / channel, simultaneous sampling

Connection cable and termination

5.4 Training

Training will be given at the Valcartier Garrison (AEC) for two to three people over a two-day period.

Handling of the configuration, configuration of the sensors, data recording (in trigger and free mode), adjustment of the time base. Getting started with data analysis; mathematical function controls a number of systems.

5.5 Future purchase option

Possibility of future purchase of another data acquisition system and modules in the next two years.

This option is conditional upon the availability of funds at the DRDC Valcartier Research Centre over the next two years. This other system of acquisition will have the same characteristics as a system with the same modules.

6. Deliverables

Data acquisition system based on the requested criteria

Cable and connections (power supply, connection between modules, if necessary)

Screws and bolts required

Training

7. DATE OF DELIVERY

Siw weeks after contract award.

8. LANGUAGE OF WORK

French

9. DELIVERY ADDRESS

Defence Research and Defence Canada

2459 de la Bravoure Road

Building 53

Quebec City, QC

G3J 1X5

10. TRAVEL

The Contractor must travel to the following locations for the following tasks:

Task: 5.4 Training

Location: Valcartier Garrison

Address: Army Enlistment Centre (AEC)

Duration: 2 days

Frequency: Once

11. **MEETINGS**

None

12. **GOVERNMENT-SUPPLIED MATERIEL (GSM)**

None

13. **GOVERNMENT-SUPPLIED EQUIPMENT (GsE)**

None

14. **SPECIAL CONSIDERATIONS**

None

15. **SECURITY**

The work is not classified, and the Contractor will not have access to PROTECTED and/or CLASSIFIED information or assets.

ANNEX « B »

BASIS OF PAYMENT

B1. Price – Firm Quantity

#	Description	Qty	UI	Firm Unit Price	Total Firm Price (CAD)
1	Data Acquisition System In accordance with the specifications described in Annex « A »:, including: Specify the make and model of the equipment: Make: _____ Model: _____	1	EACH	\$ _____	\$ _____
2	Training	1	Each	\$ _____	\$ _____
3	DDP (Quebec City, Quebec, Canada), including Customs Duties, Handling and Delivery.	1	Lot	\$ _____	\$ _____
TOTAL BID PRICE (TBP) =					\$ _____
Note: Price in Canadian currency, excluding applicable taxes.					

B.2 Optional Good

#	Description	Qty	UI	Firm Unit Price	Total Firm Price (CAD)
1	Data Acquisition System In accordance with the specifications described in Annex « A »:, including: Specify the make and model of the equipment: Make: _____ Model: _____	1	EACH	\$ _____	\$ _____
2	Training	1	EACH	\$ _____	\$ _____
2	DDP (Quebec City, Quebec, Canada), including Customs Duties, Handling and Delivery.	1	Lot	\$ _____	\$ _____
TOTAL BID PRICE (TBP) =					\$ _____
Note: Price in Canadian currency, excluding applicable taxes.					

ANNEX « C »

CERTIFICATION AND BIDDER FORMS

Form – To be submitted with bid

5.2.4. OEM Certification

OEM Certification Form

This confirms that the original equipment manufacturer (OEM) identified below has authorized the Bidder named below to provide and maintain its products under any contract resulting from the bid solicitation identified below.

Name of OEM	_____
Signature of authorized signatory of OEM	_____
Print Name of authorized signatory of OEM	_____
Print Title of authorized signatory of OEM	_____
Address for authorized signatory of OEM	_____
Telephone no. for authorized signatory of OEM	_____
Fax no. for authorized signatory of OEM	_____
Date signed	_____
Solicitation Number	_____
Bidder's name	_____