



National Defence

National Defence Headquarters
Ottawa, Ontario
K1A 0K2

Défense nationale

Quartier général de la Défense nationale
Ottawa (Ontario)
K1A 0K2

**REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION**

**RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À :**

Bid Receiving – PWGSC / Réception des
soumissions - TPSGC
11 Laurier St. / 11 rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau
Québec
K1A 0S5

Proposal To: National Defence 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 and services listed herein and on any
attached sheets at the price(s) set out therefore

Proposition à : Défense nationale 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
et services énumérés ici et sur toute feuille ci-annexée, au(x)
prix indique(s).

<p>Solicitation Closes – L'invitation prend fin</p> <p>At – à : 14 :00 EDT</p> <p>On - le : October 10, 2017</p>
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Title/Titre Shielded Bag Test System/ Système de test de sac blindé	Solicitation No – N° de l'invitation W8486-184302/A
Date of Solicitation – Date de l'invitation August 31, 2017	
Address Enquiries to – Adresser toutes questions à Julianne Eng Julianne.eng@forces.gc.ca	
Telephone No. – N° de téléphone 819-939-9078	FAX No – N° de fax 819-994-7659
Destination See Herein Ci-Joint	

Instructions:

Municipal taxes are not applicable. Unless otherwise specified herein all prices quoted must include all applicable Canadian customs duties, GST/HST, excise taxes and are to be delivered Delivery Duty Paid including all delivery charges to destination(s) as indicated. The amount of the Goods and Services Tax/Harmonized Sales Tax is to be shown as a separate item.

Instructions: Les taxes municipales ne s'appliquent pas. Sauf indication contraire, les prix indiqués doivent comprendre les droits de douane canadiens, la TPS/TVH et la taxe d'accise. Les biens doivent être livrés « rendu droits acquittés », tous frais de livraison compris, à la ou aux destinations indiquées. Le montant de la taxe sur les produits et services/taxe de vente harmonisée doit être indiqué séparément.

Delivery required - Livraison exigée	Delivery offered - Livraison proposée
Vendor Name and Address - Raison sociale et adresse du fournisseur	
Name and title of person authorized to sign on behalf of vendor (type or print) - Nom et titre de la personne autorisée à signer au nom du fournisseur (caractère d'imprimerie)	
Name/Nom _____	Title/Titre _____
Signature _____	Date _____

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PART 1 - GENERAL INFORMATION

1.1 Security Requirements

There is no security requirement associated with this requirement.

1.2 Statement of Requirement

The requirement is detailed in Annex "A".

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 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 and Services – Competitive Requirements, are incorporated by reference into and form part of the bid solicitation, with the following modifications:

- a) Section 02, Procurement Business Number is deleted in its entirety.
- b) Section 20, Further Information is deleted in its entirety.

Subsection 5.4 of 2003, Standard Instructions - Goods or Services – Competitive Requirements, is amended as follows:

Delete: 60 days
Insert: 90 days

2.2 Submission of Bids

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) 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 Ontario.

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 (two (2) hard copies)

Section II: Financial Bid (one (1) hard copies)

Section III: Certifications (one (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 as follows:

Bidders must submit firm prices, Delivered Duty Paid (DDP) at 45 Sacré-Coeur Blvd, Gatineau, Québec, Canada Incoterms 2010, Applicable Taxes excluded. The total amount of Applicable Taxes must be shown separately.

- a) Bids must be submitted in Canadian dollars.
- b) Blank Prices : Bidders are requested to insert "\$0.00" for any item for which it does not intend to charge or for items that are already included in other prices set out in Annex E. If the Bidder leaves any price blank, Canada will treat the prices as "\$0.00" for evaluation purposes and may request that the Bidder confirm that the price is, in fact, \$0.00. No bidder will be permitted to add or change a price as part of this confirmation. Any bidder who does not confirm that the price for a blank item is \$0.00 will be declared non-responsive.

3.1.1 Electronic Payment of Invoices – Bid

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

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

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

3.1.2 Exchange Rate Fluctuation

C3011T (2013-11-06) Exchange Rate Fluctuation

3.1.3 SACC Manual Clauses

Section III: Certifications

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

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

The mandatory technical criteria is listed in Annex B.

4.1.2 Financial Evaluation

The price of the bid will be evaluated in Canadian dollars, Delivered Duty Paid (DDP) at 45 Sacré-Coeur Blvd, Gatineau, QC, Canada Incoterms 2010, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

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 as per Annex E- Pricing Schedule will be recommended for award of a contract.

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless otherwise specified, 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 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.

5.1.1 Integrity Provisions – Required Documentation

In accordance with the *Ineligibility and Suspension Policy* (<https://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.

5.1.2 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 website](http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969#afed) (http://www.esdc.gc.ca/en/jobs/workplace/human_rights/employment_equity/federal_contractor_program.page?&_ga=1.229006812.1158694905.1413548969#afed).

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.

5.1.3 Contractor Qualifications

The Contractor must be an approved supplier of Original Equipment Manufacturer (OEM). If the Contractor is not the OEM, then the Contractor must provide a letter from the OEM confirming that the Contractor is an approved supplier.

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to this Contract.

6.2 Statement of Requirement

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A".

6.3 Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the [Standard Acquisition Clauses and Conditions Manual](https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) (https://buyandsell.gc.ca/policy-and-guidelines/standard-acquisition-clauses-and-conditions-manual) issued by Public Works and Government Services Canada.

6.3.1 General Conditions

[2010A](#) (2016-04-04), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract, with the following modifications:

a. Definition of Minister is modified as follows:

"Canada", "Crown", "Her Majesty" or "the Government" means Her Majesty the Queen in right of Canada as represented by the Minister of National Defence and any other person duly authorized to act on behalf of that minister or, if applicable, an appropriate minister to whom the Minister of National Defence has delegated his or her powers, duties or functions and any other person duly authorized to act on behalf of that minister.

b. Intellectual property infringement and royalties

1. The Contractor represents and warrants that, to the best of its knowledge, neither it nor Canada will infringe any third party's intellectual property rights in performing or using the Work, and that Canada will have no obligation to pay royalties of any kind to anyone in connection with the Work.

2. If anyone makes a claim against Canada or the Contractor concerning intellectual property infringement or royalties related to the Work, that Party agrees to notify the other Party in writing

immediately. If anyone brings a claim against Canada, according to Department of Justice Act, R.S. 1985, c. J-2, the Attorney General of Canada must have the regulation and conduct of all litigation for or against Canada, but the Attorney General may request that the Contractor defend Canada against the claim. In either case, the Contractor agrees to participate fully in the defence and any settlement negotiations and to pay all costs, damages and legal costs incurred or payable as a result of the claim, including the amount of any settlement. Both Parties agree not to settle any claim unless the other Party first approves the settlement in writing.

3. The Contractor has no obligation regarding claims that were only made because:
 - a. Canada modified the Work or part of the Work without the Contractor's consent or used the Work or part of the Work without following a requirement of the Contract; or
 - b. Canada used the Work or part of the Work with a product that the Contractor did not supply under the Contract (unless that use is described in the Contract or the manufacturer's specifications); or
 - c. the Contractor used equipment, drawings, specifications or other information supplied to the Contractor by Canada (or by someone authorized by Canada); or
 - d. the Contractor used a specific item of equipment or software that it obtained because of specific instructions from the Contracting Authority; however, this exception only applies if the Contractor has included the following language in its own contract with the supplier of that equipment or software: "[Supplier name] acknowledges that the purchased items will be used by the Government of Canada. If a third party claims that equipment or software supplied under this contract infringes any intellectual property right, [supplier name], if requested to do so by either [Contractor name] or Canada, will defend both [Contractor name] and Canada against that claim at its own expense and will pay all costs, damages and legal fees payable as a result of that infringement." Obtaining this protection from the supplier is the Contractor's responsibility and, if the Contractor does not do so, it will be responsible to Canada for the claim.
4. If anyone claims that, as a result of the Work, the Contractor or Canada is infringing its intellectual property rights, the Contractor must immediately do one of the following:
 - a. take whatever steps are necessary to allow Canada to continue to use the allegedly infringing part of the Work; or
 - b. modify or replace the Work to avoid intellectual property infringement, while ensuring that the Work continues to meet all the requirements of the Contract; or
 - c. take back the Work and refund any part of the Contract Price that Canada has already paid.

If the Contractor determines that none of these alternatives can reasonably be achieved, or if the Contractor fails to take any of these steps within a reasonable amount of time, Canada may choose either to require the Contractor to do (c), or to take whatever steps are necessary to acquire the rights to use the allegedly infringing part(s) of the Work itself, in which case the Contractor must reimburse Canada for all the costs it incurs to do so.

6.3.2 Supplemental General Conditions

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 Delivery Date

All the deliverables must be received on or before 45 days after contract award.

6.4.2 Delivery

Goods must be consigned and delivered to the destination specified in the contract:

Incoterms 2010 "DDP Delivered Duty Paid" 45 Sacré-Coeur Blvd, Gatineau, Québec, Canada

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: _____

Title: _____

Directorate: _____

Address: _____

Telephone: _____

Facsimile: _____

E-mail address: _____

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:

Name: _____

Title: _____

Organization: _____

Address: _____

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.

6.5.3 Contractor's Representative

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 the contract 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 Single Payment

SACC Manual clause H1000C (2008-05-12) Single Payment

6.6.3 Electronic Payment of Invoices – Contract

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

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.

2. Invoices must be distributed as follows:

- a. The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.

6.8 Certifications

6.8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing additional information are conditions of the Contract. Certifications are subject to verification by Canada during the entire period of the Contract. If the Contractor does not comply with any certification, fails to provide the additional information, or if it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

6.9 Applicable Laws

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

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 4003 (2010-08-16) Licensed Software and 4004 (2013-04-25) Maintenance and Support Services for Licensed Software;
- (c) the general conditions 2010A (2016-04-04) General Conditions- Goods (Medium Complexity);
- (d) Annex A, Statement of Requirement;

(e) the Contractor's bid dated _____

6.11 Defence Contract

SACC Manual clause [A9006C](#) (2012-07-16) Defence Contract

6.12 Insurance

SACC Manual clause [G1005C](#) (2016-01-28) Insurance

6.13 SACC Manual Clauses

SACC Manual Clause [B1501C](#) (2006-06-16) Electrical Equipment

SACC Manual Clause [D2000C](#) (2007-11-30) Markings

SACC Manual Clause [D2001C](#) (2007-11-30), Labelling

SACC Manual Clause D2025C (2017-08-17) Wood Packaging Materials

SACC Manual clause [D5545C](#) (2010-08-16), ISO 9001:2008: Quality Management Systems- Requirements (Quality Assurance Code C)

SACC Manual Clause D9002C (2007-11-30) Incomplete Assemblies

6.14 Shipping Instructions – Delivery at Destination

Goods must be consigned to the destination specified in the Contract and delivered:

Delivered Duty Paid (DDP) 45 Sacré-Coeur Blvd, Gatineau, QC, Canada Incoterms 2000 for shipments from a commercial contractor.

6.15 Complete Delivery

The Contractor must make the complete delivery within 45 days from the effective date of the Contract.

ANNEX "A"

STATEMENT OF REQUIREMENT

STATEMENT OF REQUIREMENT FOR PROCUREMENT OF A SHIELDED BAG TEST SYSTEM FOR THE QUALITY ENGINEERING TEST ESTABLISHMENT

1.0 SCOPE

1.1 Purpose

The purpose of the Statement of Requirement (SOR) is to define the required specifications for a Shielded Bag Test System for the Quality Engineering Test Establishment (QETE).

1.2 Terminology

The terms used in this Statement of Requirement are as follows:

- DND (Department of National Defence)
- QETE (Quality Engineering Test Establishment)

1.3 Standards

The standards defined in this Statement of Requirement are as follows:

- ANSI/ESD STM 11.31: Evaluating the Performance of Electrostatic Discharge Shielding Materials -Bags
- EIA 541: Packaging Material Standards for ESD Sensitive Items

2.0 REQUIREMENTS

2.1 DND Mandatory Requirement for a Shielded Bag Test System.

QETE requires a turnkey package that must meet ANSI/ESD STM11.31 (Energy) and EIA 541 (Voltage) requirements. The Shielded Bag Test System must provide the correct discharge pulse and 100:1 attenuated voltage output to a 2 channels oscilloscope for the EIA541 voltage test and a current pulse through a 500 ohms resistor to the oscilloscope for the ANSI/ESD STM11.31.

2.2 The Shielded Bag Test System must include as a minimum the following specifications:

- 2.2.1 High Voltage Power Supply adjustable: +800 to +1200V.
- 2.2.2 Discharge Network: 100pF/1500 Ω as per Standard ANSI/ESD STM 11.31.
- 2.2.3 Discharge Network: 200pf/1.5 or 400 k Ω as per Standard EIA 541.
- 2.2.4 Discharge Waveforms in accordance with Standard ANSI/ESD STM 11.31 requirement.
- 2.2.5 Discharge Electrode and Ground Electrode must be 3.8 \pm 0.025 cm in diameter and must be made of conductive material. The support area that surrounds the ground electrode must be 20 X 25 cm and have a surface resistivity greater than 1X10¹³ ohms per square and also be made of a conductive material.
- 2.2.6 Capacitive Sensor with a capacitance of 8 pF \pm 2 pF and constructed as specified in ANSI/ESD STM11.31. The spacer between the plates shall be made of insulating material such as polycarbonate or acrylic.

2.2.7 Power requirement of 90-260VAC, 50/60Hz.

2.3 Supporting equipment that provides test automatization:

2.3.1 Windows Laptop Computer including data acquisition software that automates all functions and data acquisition for testing in accordance with ANSI/ESD STM 11.3 and processes the information.

2.3.2 Oscilloscope capable of 200 MHz single shot bandwidth and a minimum sampling rate of 500 mega samples per seconds and compatible with the automated system.

2.3.3 Current Probe with a minimum frequency response of 500 MHz with a maximum cable length of 1 meter.

2.4 The Shielded Bag Test System and supporting equipment must include the following:

2.4.1 A minimum of 1 year warranty.

2.4.2 Certificates of Calibration.

3.0 DELIVERABLES

The contractor must deliver the following goods:

3.1 A Shielded Bag Test System including Current Probe, Oscilloscope and Windows Laptop Computer and data acquisition software that automates all functions and data acquisition for testing in accordance with ANSI/ESD STM 11.3 and processes the information.

No.	Deliverable Item	Qty	Notes
1	Shielded Bag Test System	1	
2	Current Probe including: a) minimum frequency of 500 MHz	1	
3	Oscilloscope including: a) 200 MHz single shot bandwidth b) minimum sampling rate of 500 mega samples per second c) compatible with automated system	1	
4	Windows Laptop Computer including: a) data acquisition software	1	
5	Certificate of calibration for: a) Shielded Bag Test System b) Current Probe c) Oscilloscope	1 1 1	

4.0 DELIVERY

The Contractor must deliver the Shielded Bag Test System at the National Printing Bureau to the following address:

Quality Engineering Test Establishment (QETE)
National Printing Bureau,
45 Sacre-Coeur Boulevard,
Ramp No 7
Gatineau, Québec
K1A 0K2

ANNEX "B"

MANDATORY TECHNICAL CRITERIA

The bid must meet the mandatory technical criteria specified below. Bidders must provide the necessary documentation to support compliance with the requirements, including technical data sheets, specifications, brochures and other relevant technical documentation describing the equipment offered and demonstrating compliancy. **Where the Bidder's technical documentation does not clearly demonstrate that the equipment offered will meet a specific requirement, the Bidder's proposal must provide additional descriptions of how the requirement will be met by the proposed solution.**

Each mandatory technical criterion should be addressed separately and in the order presented below.

#	MANDATORY TECHNICAL CRITERION	COMPLIANT		PROPOSAL REFERENCE OR DESCRIPTION OF HOW REQUIREMENT IS MET
		YES	NO	
	BIDDER'S PROPOSED GOOD			
	SHIELDED BAG TEST SYSTEM			
2.2.1	Must include a High Voltage Power Supply adjustable: +800 to+1200V	<input type="checkbox"/>	<input type="checkbox"/>	
2.2.2	Must include Discharge Network: 100pF/1500 Ω as per Standard ANSI/ESD STM 11.31	<input type="checkbox"/>	<input type="checkbox"/>	
2.2.3	Must include Discharge Network: 200pf/1.5 or 400 kΩ as per Standard EIA 541	<input type="checkbox"/>	<input type="checkbox"/>	
2.2.4	Discharge Waveform must meet Standard ANSI/ESD STM 11.31 requirement: Rise Time@ 0 Ω: <10nsec Rise Time@ 500 Ω: <20nsec Fall Time@ 0 Ω: <150 ±15nsec Fall Time@ 500 Ω: <200 ±20nsec Ringing: <15%	<input type="checkbox"/>	<input type="checkbox"/>	
2.2.5	Discharge Electrode and Ground Electrode must be 3.8 ±0.025 cm in diameter and must be made of conductive material. The support area that surrounds the ground electrode should be 20 X 25 cm and have a surface resistivity greater than 1X10 ¹³ ohms per square.	<input type="checkbox"/>	<input type="checkbox"/>	

#	MANDATORY TECHNICAL CRITERION	COMPLIANT		PROPOSAL REFERENCE OR DESCRIPTION OF HOW REQUIREMENT IS MET
		YES	NO	
2.2.6	Must include Capacitive Sensor with a capacitance of 8 pF + 2 pF and constructed as specified in ANSI/ESD STM11.31. The spacer between the plate s shall be made of insulating material such as polycarbonate or acrylic.	<input type="checkbox"/>	<input type="checkbox"/>	
2.2.7	The equipment must meet Power requirement of 90-260VAC, 50/60Hz.	<input type="checkbox"/>	<input type="checkbox"/>	
2.3.1	Windows Laptop Computer including data acquisition software that automates all functions and data acquisition for testing in accordance with ANSI/ESD STM 11.3 and processes the information.	<input type="checkbox"/>	<input type="checkbox"/>	
2.3.2	Oscilloscope capable of 200 MHz single shot bandwidth and a minimum sampling rate of 500 mega samples per seconds and compatible with the automated system.	<input type="checkbox"/>	<input type="checkbox"/>	
2.3.3	Current Probe with a minimum frequency response of 500 MHz with a maximum cable length of 1 meter.	<input type="checkbox"/>	<input type="checkbox"/>	
2.4.1	Must provide minimum of 1 year warranty.	<input type="checkbox"/>	<input type="checkbox"/>	
2.4.2	Must include Certificates of Calibration.	<input type="checkbox"/>	<input type="checkbox"/>	

ANNEX "C"

SECURITY REQUIREMENTS CHECK LIST

There is no security requirement applicable to this Contract

ANNEX "D"

ELECTRONIC PAYMENT INSTRUMENTS

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

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)

ANNEX “E”

BID PRICING SCHEDULE

Deliverables Item / Goods and Services	Qty	Firm Unit Price Applicable Taxes Extra	Total Price Applicable Taxes Extra
1) Shielded Bag Test System (SOR Para 2.2)	1	\$	\$
2) Windows Laptop with data acquisition software (SOR Para 2.3.1)	1	\$	\$
3) Oscilloscope (SOR Para 2.3.2)	1	\$	\$
4) Current Probe (SOR Para 2.3.3)	1	\$	\$
5) 1 Year warranty (SOR Para 2.4.1)	1	\$	\$
6) Certificate of Calibration (SOR Para 2.4.2)			
a. Certificate of Calibration: Shielded Bag Test System (SOR Para 3.1 No 5a)	1	\$	\$
b. Certificate of Calibration: Current Probe (SOR Para 3.1 No 5b)	1	\$	\$
c. Certificate of Calibration: Oscilloscope (SOR Para 3.1 No 5c)	1	\$	\$
Total Evaluated Price			\$