



National Defence

Défense nationale

National Defence Headquarters  
Ottawa, Ontario  
K1A 0K2

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

## REQUEST FOR PROPOSAL DEMANDE DE PROPOSITION

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

Justin Laundrie  
Justin.Laundrie@forces.gc.ca

#### 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).

#### Solicitation Closes – L'invitation prend fin

At – à :

2 :00pm ET

On - le :

March 28, 2024 – 28 mars 2024

<b>Title/Titre</b> ETS Static Display Analyzer / Analyseur d'affichage statique ETS	<b>Solicitation No – N° de l'invitation</b> W8486-238883/B
<b>Date of Solicitation – Date de l'invitation</b> March 12, 2024 – 12 mars 2024	
<b>Address Enquiries to – Adresser toutes questions à</b>  Justin Laundrie Justin.laundrie@forces.gc.ca	
<b>Telephone No. – N° de téléphone</b> 343-571-8929	<b>FAX No – N° de fax</b> N/A
<b>Destination</b>  Quality Engineering Test Establishment 45 Sacré-Coeur Blvd Gatineau QC, J8X 1C6	

#### 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.**

<b>Delivery Required - Livraison requis:</b> July 31, 2024	<b>Delivery offered - Livraison proposée</b>
<b>Vendor Name and Address - Raison sociale et adresse du fournisseur</b>	
<b>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)</b>	
Name/Nom _____	Title/Titre _____
Signature _____	Date _____

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## **PART 1 - GENERAL INFORMATION**

### **1.1 Requirement**

The requirement is detailed in Annex "A", Requirement.

### **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 Canadian Free Trade Agreement (CFTA)

### **1.4 Canadian Content**

The requirement is subject to a preference for Canadian goods and/or services.

## **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 (2023-06-08) 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(2), Further Information is deleted in its entirety.
- c) Subsection 2.d. of Section 05, Submission of Bids, is deleted in its entirety and replaced with the following:

Send its bid only to the address specified in the bid solicitation.
- d) Section 06, Late Bids, Is deleted in its entirety;
- e) The text under Section 07, Delayed Bids, is deleted in its entirety and replaced with the following:

It is the Bidder's responsibility to ensure that the Contracting Authority has received the entire submission. Misrouting or other electronic delivery issues resulting in late submission of bids will not be accepted.
- f) Subsection 1 of Section 08, Transmission by Facsimile, is deleted in its entirety.

### 2.1.1 Equivalent Products

- 1) Products that are equivalent in form, fit, function and quality to the item(s) specified in the bid solicitation will be considered where the Bidder:
  - a) designates the brand name, model and/or part number of the substitute product;
- 2) Products offered as equivalent in form, fit, function and quality will not be considered if:
  - a) the bid fails to provide all the information requested to allow the Contracting Authority to fully evaluate the equivalency of each substitute product; or
  - b) the substitute product fails to meet or exceed the mandatory performance criteria specified in the bid solicitation for that item.
- 3) In conducting its evaluation of the bids, Canada may, but will have no obligation to, request bidders offering a substitute product to provide technical information demonstrating the equivalency (e.g. Drawing, specification, engineering reports and/or test reports), or to demonstrate that the substitute product is equivalent to the item specified in the bid solicitation, at the sole cost of bidders, within (5) calendar days of the request. If the bidder fails to provide the requested information within the specified delay, Canada may declare the bid non-responsive.

#### Equivalent Products and Replacement Part Number from OEM – Samples

- 1) If the Bidder offers an equivalent product or a replacement part number from the OEM, Canada reserves the right to request a sample from the Bidder in order to determine its equivalency in form, fit, function, quality and performance to the item specified in the bid solicitation.
- 2) The Bidder must, upon request from the Contracting Authority, provide a sample to the Technical Authority, transportation charges prepaid, and without charge to Canada, within (5) calendar days from the date of request. The sample submitted by the Bidder will remain the property of Canada and will not be considered as part of the deliverables in any resulting contract. If the sample does not meet the requirement of the bid solicitation or the Bidder fails to comply with the request of the Contracting Authority, the bid will be declared non-responsive.

### 2.2 Electronic Submission of Bids

- a) Bids must be submitted only to the Department of National Defence by the date, time and place indicated on page 1 of the bid solicitation. Bids must be received electronically as noted in subparagraph b).
- b) **Electronic Submissions: Individual e-mails exceeding five (5) megabytes, or that includes other factors such as embedded macros and/or links, may be rejected by the DND e-mail system and/or firewall(s) without notice to the Bidder or Contracting Authority.** Larger bids may be submitted through more than one e-mail. The Contracting Authority will confirm receipt of documents. It is the Bidder's responsibility to ensure that the Contracting Authority has received the entire submission. Bidders should not assume that all documents have been received unless the Contracting Authority confirms receipt of each document. In order to minimize the potential for technical issues, Bidders are requested to allow sufficient time before the closing time and date to confirm receipt. Technical and financial documents received after the closing time and date will not be accepted.

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

## **2.3 Enquiries - Bid Solicitation**

All enquiries must be submitted in writing to the Contracting Authority no later than 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 (one soft copy on pdf.)

Section II: Financial Bid (one soft copy on pdf.)

Section III: Certifications (one soft copy on pdf.)

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

Bidders may use Attachment 1 to Part 3 to indicate their prices. If Bidders choose to use Attachment 1 to Part 3 to indicate their prices, Bidders must include Attachment 1 to Part 3 in their financial 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 as follows:

Bidders must submit firm prices, Delivered Duty Paid (DDP) at (Quality Engineering Test Establishment, 45 Sacre-Coeur Blvd, Gatineau QC, J8X 1C6) Incoterms 2010, Applicable Taxes excluded. The total amount of Applicable Taxes must be shown separately.

Bids must be submitted in Canadian dollars.

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

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

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

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

### **3.1.2 Exchange Rate Fluctuation**

C3011T (2013-11-06), Exchange Rate Fluctuation

### **3.1.3 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.
- (c) The evaluation team will determine if there are two (2) or more bids with a valid Canadian content certification with the bids coming from two or more Bidders that are not affiliated within the meaning used in the [Competition Act](#), R.S.C., 1985, c. C-34. In that event, only those bids with a valid certification will be eligible to be awarded a contract; otherwise, all bids will be eligible. If at any point in the evaluation process it is found, whether by determination of invalidity of certifications, determination that bids are non-responsive or withdrawal of bids by Bidders, that there are no longer two (2) or more responsive bids with a valid certification, then all responsive bids will be eligible to be awarded a contract. Canada may conduct the validation of Canadian content certifications at any time in the evaluation process including doing so concurrently with other steps..

#### **4.1.1 Technical Evaluation**

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

Must come with a Certificate of Calibration that is dated no more than 90 days before arrival at required destination. Must be CSA/equivalent certified "before" delivery to Canada. OEM S/N must be provided before shipping to Canada.

Bidders must provide the Part Number or equivalent as noted in Annex A – Requirement.

If equivalents are being offered, please refer to Annex D.

#### **4.1.2 Financial Evaluation**

The price of the bid will be evaluated in Canadian dollars, Delivered Duty Paid (DDP) at (Quality Engineering Test Establishment, 45 Sacre-Coeur Blvd, Gatineau QC, J8X 1C6) Incoterms 2010, Canadian customs duties and excise taxes included, Applicable Taxes excluded.

Canada reserves the right to award the Contract either FCA (Contractor's shipping point) or DDP (Quality Engineering Test Establishment, 45 Sacre-Coeur Blvd, Gatineau QC, J8X 1C6).

#### **4.2 Basis of Selection**

A bid must comply with the requirements of the bid solicitation to be declared responsive. The responsive bid with the lowest total price will be recommended for award of a contract.

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

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless 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 Required with the Bid**

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

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

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

##### **5.1.2 Additional Certifications Required with the Bid**

###### **5.1.2.1 Canadian Content Certification**

This procurement is conditionally limited to Canadian goods.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids for items with a certification that the item(s) offered are Canadian goods, as defined in clause A3050T, may be considered.

Failure to provide this certification completed with the bid will result in the item(s) offered being treated as non-Canadian goods.

The Bidder certifies that:

( ) a minimum of 80 percent of the total bid price consist of Canadian goods as defined in paragraph 1 of clause [A3050T](#).

For more information on how to determine the Canadian content for a mix of goods, a mix of services or a mix of goods and services, consult [Annex 3.6](#), Example 2, of the Supply Manual

**5.1.2.1.1** SACC Manual clause [A3050T](#) (2020-07-01) Canadian Content Definition



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## 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#afed) 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.

## 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 Requirement

The Contractor must provide the items detailed under the "Requirement" 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](#) (2022-12-01), 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

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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.

## **6.4 Term of Contract**

### **6.4.1 Delivery Date**

All the deliverables must be received on or before July 31, 2024.

### **6.4.2 Shipping Instructions**

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

1. Incoterms 2010 "DDP Delivered Duty Paid" (Quality Engineering Test Establishment, 45 Sacre-Coeur Blvd, Gatineau QC, J8X 1C6).

## **6.5 Authorities**

### **6.5.1 Contracting Authority**

The Contracting Authority for the Contract is:

Name: **(To be inserted at contract award).**

Title: \_\_\_\_\_

Public Works and Government Services Canada  
Acquisitions Branch

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: **(To be inserted at contract award).**

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

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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**

*(To be inserted at contract award)*

## **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 \$ *(To be inserted at contract award)*.

Customs duties are excluded, and Applicable Taxes are extra.

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

### **6.6.2 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):

*(To be inserted at contract award)*.

## **6.7 Invoicing Instructions**

Invoices must be distributed as follows:

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

## **6.8 Certifications**

### **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.

### **6.8.2 SACC Manual Clauses**

*SACC Manual* clause [A3060C](#) (2017-08-17) Canadian Content Certification

## **6.9 Applicable Laws**

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in *(To be inserted at contract award)*.

## 6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions [2010A](#) (2022-12-01), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Pricing Schedule;
- (e) the Contractor's bid dated **To be inserted at contract award**.

## 6.11 Defence Contract

SACC Manual clause [A9006C](#) (A9006C) Defence Contract

## 6.12 Insurance

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

## 6.13 Packaging Requirement

The Contractor must prepare item number(s) 1 integrity for delivery in accordance with the latest issue of the Canadian Forces Packaging Specification *D-LM-008-036/SF-000*, DND Minimum Requirements for Manufacturer's Standard Pack.

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

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

SACC Manual clause [D2025C](#) (2017-08-17), Wood Packing Materials

## 6.14 Quality Assurance

SACC Manual clause [D5545C](#) (2019-05-30), ISO 9001:2008 – Quality Management Systems Requirement (Quality Assurance Code C)

**ANNEX "A"**

**REQUIREMENT**

<b>Item</b>	<b>Description Include NSN / Part Number</b>	<b>Unit of Issue</b>	<b>Firm Qty</b>	<b>Destination Address</b>	<b>Security Requirement (Yes or No)</b>	<b>Controlled Goods (Yes or No)</b>
1	ETS Static Display Analyzer P/N 4406 NSN: (6625) 01- 7074872 NSCM/MFG: 56541	EA	2	Quality Engineering Test Establishment, 45 Sacre-Coeur Blvd, Gatineau QC, J8X 1C6	No	No

**ATTACHMENT 1 TO PART 3 OF THE - BID SOLICITATION**

**PRICING SCHEDULE**

Item	Description Include NSN / Part Number	Unit of Issue	Firm Qty	Destination Address	Firm Unit Price, DDP, Transportation costs included, Applicable taxes extra	Extended Price, DDP, Transportation costs included, Applicable taxes extra
1	ETS Static Display Analyzer P/N 4406 NSN: (6625) 01- 7074872 NSCM/MFG: 56541	EA	2	Quality Engineering Test Establishment, 45 Sacre-Coeur Blvd, Gatineau QC, J8X 1C6	\$ _____	\$ _____

Subtotal: \_\_\_\_\_

Taxes (14.975%): \_\_\_\_\_

Total: \_\_\_\_\_

Bidders may use Attachment 1 to Part 3 to indicate their prices. If Bidders choose to use Attachment 1 to Part 3 to indicate their prices, Bidders must include Attachment 1 to Part 3 in their financial bid.

**ANNEX "B"**

**PRICING SCHEDULE**

To be inserted at contract award from "ATTACHMENT 1 TO PART 3 OF THE - BID SOLICITATION"

## **ANNEX "C"**

### **ELECTRONIC PAYMENT INSTRUMENTS**

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

- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);



## **ANNEX "D"**

### **TECHNICAL REQUIREMENTS FOR REPLACEMENT**

1. Shall be an integrated system, with no additional components required to implement Static Decay testing of planar test samples
2. Shall incorporate a Test Assembly which will be placed in an environmental chamber and shall operate after and during environmental conditioning of between 48 and 72 hours at a temperature of 23 +/- 3C and at relative humidity (RH) of 12 +/- 3%, or 20 +/- 3%.
3. The Test Assembly shall have a maximum size of approximately 24 cm (W) x 29 cm (D) x 25 cm (H) to fit within the Environmental Chamber that QETE uses for ESD Testing.
4. The Test Assembly shall incorporate a test sample holder, capable of holding test samples of sizes 3" x 5.5" using magnetic and/or mechanical clamps.
5. The Test Assembly shall incorporate charging electrodes capable of charging the Test Sample to 5 kilovolts at positive (+) and negative (-) polarities.
6. The Test Assembly shall incorporate an Electrostatic Voltmeter Charge Sensor to measure the electric charge on the Test Sample.
7. The Test Assembly shall incorporate a Faraday Cage to prevent external electrostatic fields from interfering with the operation of the electrostatic test setup of Test Sample, Application of Electrostatic Charge, and Electrostatic Voltmeter Charge Sensor.
8. The Test Assembly shall incorporate a Safety Lockout to prevent the application of High Voltage to the Test Assembly during operator access to the test sample.
9. The Static Decay Test System shall be capable of applying a high voltage charge up to and including 5 kilovolts at positive and negative polarities to a test sample in the Test Assembly.
10. The Static Decay Test System shall be capable of setting cut-off voltages (the voltage to which the charge on the test sample decays to) at the 1% and 10% of the Accepted Charge Voltage. The ability to set a variable cut-off voltage of between 1 and 50% of the Accepted Charge is a beneficial feature.
11. The Static Decay Test System shall be capable of both Manual (Step-by-Step) and Automatic (Steps performed sequentially without operator intervention) operation.
12. In Automatic Mode, the Static Decay Test System shall record intermediate Static Decay test results for later download to a computer.

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13. A System Test Module with a fixed Static Decay time constant shall be included with the Static Decay Test System to verify system operation and ensure the balance between + and – polarity charge testing.
  14. The Control section of the Static Decay Test System shall be located external to the Environmental Chamber for ease of operation.
  15. The Static Decay Test System shall have the capability of measuring directly:
    - a. The initial charge on the test sample;
    - b. The accepted charge<sup>1</sup> on the test sample;
    - c. The charge on the test sample over the decay period;
    - d. The length of time for the test sample to decay to a fixed set percentage of the initial applied charge. The fixed percentage settings must include at a minimum 10% of applied charge and 1%. Adjustable percentage settings incorporating the fixed percentage values, to 0.1% resolution is also acceptable
  16. The Control Section shall have clearly labelled controls for selection of Static Decay Test System Operation states, and clearly readable displays and indicators for the presentation of measurement results and operational status.
    - a. Decay time to 99.9 sec maximum;
    - b. Digital readout resolution of decay time to 0.1% of full scale.
  17. The Static Decay Test System shall be accompanied by a clearly written (English or French) operations manual describing the setup and operation of the unit for commonly performed Static Decay tests.
  18. Must meets the requirements for static charge dissipation and static decay rate testing including Method 4046, MIL-PRF-81705E (plus all previous generations), ANSI/ESD S541, NFPA 99 & 77, INDA, CECC, EU, SAE, ESD Association, Company Generated.
  19. Must come with Certificate of Calibration and Calibration Decal.
  20. All electrical components of the equipment must be certified or approved for use in accordance with the Canadian Electrical Code, Part 1, before delivery, by a certification organization accredited by the Standards Council of Canada.

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<sup>1</sup> (Item 15.b.) - The accepted charge is the voltage to which the test sample charges to, resulting from the applied charge.