



**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  
Bid Fax: (819) 997-9776

**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**

<b>Title - Sujet</b> Traffic Generator Platform	
<b>Solicitation No. - N° de l'invitation</b> U6800-186251/A	<b>Date</b> 2017-11-09
<b>Client Reference No. - N° de référence du client</b> U6800-186251	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$\$HN-336-73719	
<b>File No. - N° de dossier</b> hn336.U6800-186251	<b>CCC No./N° CCC - FMS No./N° VME</b>
<b>Solicitation Closes - L'invitation prend fin</b> <b>at - à 02:00 PM</b> <b>on - le 2017-12-21</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Eastern Standard Time EST
<b>F.O.B. - F.A.B.</b> Specified Herein - Précisé dans les présentes <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input type="checkbox"/> <b>Other-Autre:</b> <input checked="" type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Bisson, Phillipe	<b>Buyer Id - Id de l'acheteur</b> hn336
<b>Telephone No. - N° de téléphone</b> (873) 469-3345 ( )	<b>FAX No. - N° de FAX</b> ( ) -
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> DEPARTMENT OF INDUSTRY CANADA 3701 CARLING AVE P.O.BOX 11490 STATION H OTTAWA Ontario K2H8S2 Canada	

**Instructions: See Herein**

**Instructions: Voir aux présentes**

**Vendor/Firm Name and Address**

**Raison sociale et adresse du  
fournisseur/de l'entrepreneur**

**Issuing Office - Bureau de distribution**

Electrical & Electronics Products Division  
11 Laurier St./11, rue Laurier  
7B3, Place du Portage, Phase III  
Gatineau, Québec K1A 0S5

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

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ANNEX A - STATEMENT OF REQUIREMENTS

ANNEX B - PRICING

## **PART 1 - GENERAL INFORMATION**

### **1.1 Security Requirements**

There is no security requirement associated with the requirement.

### **1.2 Statement of Requirements**

The contractor must provide the goods and/or services in accordance with the technical requirements stated in Annex A – Statement of Requirements.

#### **1.2.1 Delivery Requirement**

Delivery is requested to be completed by March 31, 2018.

### **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 World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), the Canada-European Union Comprehensive Economic and Trade Agreement (CETA), and the Canadian Free Trade Agreement (CFTA).

## PART 2 - BIDDER INSTRUCTIONS

### 2.1 Standard Instructions, Clauses and Conditions

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

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

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

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

Delete: 60 days

Insert: 90 days

#### 2.1.1 SACC Manual Clauses

SACC Reference	Section	Date
<a href="#">B1000T</a>	Condition of Material	2014-06-26

### 2.2 Submission of Bids

Bids must be submitted ONLY TO THE BID RECEIVING UNIT by the date, time and place indicated on page 1 of the bid solicitation. Do not send proposal directly to the Contracting Officer. Email proposal not accepted.

PWGSC Bids Receiving Unit  
11 Laurier Street  
Place du Portage, Phase 3, Core 0B2  
Gatineau, Québec, K1A 0S5  
Tel.: 819-420-7201  
Fax: 819-997-9776

### 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 Ontario.

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Buyer ID - Id de l'acheteur  
hn336  
CCC No./N° CCC - FMS No./N° VME

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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 copy)  
Section II: Financial Bid (1 hard copy)  
Section III: Certifications (1 hard copy)

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. The total amount of Applicable Taxes must be shown separately.

##### **3.1.1 Pricing - Multi-Item Bid Solicitation**

Bidders must quote a price for every item in the bid solicitation in order to be evaluated. Bidders may withdraw their entire bid after bid closing but prior to contract award by advising in writing the Contracting Authority.

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

The requirement does not offer exchange rate fluctuation risk mitigation. Requests for exchange rate fluctuation risk mitigation will not be considered. All bids including such provision will render the bid non-responsive.

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

Bidders must submit the certifications required under Part 5.

#### **Section IV: Additional Information**

##### **3.1.3 Delivery Offered**

While delivery is requested as indicated above, the best delivery that could be offered is\_\_\_\_\_.

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

**You are reminded that this solicitation requires the compliance and/or completion of requirements attached as an Annex and forming part of this document.**

### **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**

All bids must be completed in full and provide all of the information requested in the bid solicitation to enable full and complete evaluation.

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

The following Mandatory requirements must be submitted with the bid for evaluation

- Technical compliance herein;

#### **4.1.2 Financial Evaluation**

##### **4.1.2.1 Pricing Basis**

The bidder must quote firm unit prices in **US dollars (USD)**, DDP Delivered Duty Paid (Ottawa, ON), Applicable Taxes extra, as applicable. Freight charges to destination and all applicable Custom duties and Excise taxes must be included.

### **4.2 Basis of Selection**

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

Please note: Only one (1) contract will be awarded from this solicitation process.

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## PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. 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 website (<http://www.tpsgc-pwgsc.gc.ca/ci-if/declaration-eng.html>), to be given further consideration in the procurement process.

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

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

#### 5.2.1 Integrity Provisions – Required Documentation

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

#### 5.2.2 General Environmental Criteria Certification

The Bidder must select and complete one of the following two certification statements.

- A) The Bidder certifies that the Bidder is registered or meets ISO 14001.

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Bidders' Authorized Representative Signature

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Date

**or**

- B) The Bidder certifies that the Bidder meets and will continue to meet throughout the duration of the contract, a minimum of four (4) out of six (6) criteria identified in the table below.

The Bidder must indicate which four (4) criteria, as a minimum, are met.

<b>Green Practices within the Bidders' organization</b>	<b>Insert a checkmark for each criterion that is met</b>
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Promotes a paperless environment through directives, procedures and/or programs	
All documents are printed double sided and in black and white for day to day business activity unless otherwise specified by your client	
Paper used for day to day business activity has a minimum of 30% recycled content and has a sustainable forestry management certification	
Utilizes environmentally preferable inks and purchase remanufactured ink cartridges or ink cartridges that can be returned to the manufacturer for reuse and recycling for day to day business activity.	
Recycling bins for paper, newsprint, plastic and aluminum containers available and emptied regularly in accordance with local recycling program.	
A minimum of 50% of office equipment has an energy efficient certification.	

\_\_\_\_\_  
Bidders' Authorized Representative Signature

\_\_\_\_\_  
Date

### 5.2.3 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](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.

## 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 Statement of Requirements

The contractor must provide the goods and/or services in accordance with the technical requirements stated in Annex A – Statement of Requirements.

#### 6.2.1 Optional Goods

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

The Contracting Authority may exercise the option within twenty four (24) months after contract award by sending a written notice to the Contractor.

#### 6.2.2 SACC Manual Clauses

SACC Reference	Section	Date
<a href="#">B7500C</a>	Excess Goods	2006-06-16

### 6.3 Standard Clauses and Conditions

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

#### 6.3.1 General Conditions

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

### 6.4 Term of Contract

#### 6.4.1 Delivery Date

All the deliverables must be received on or before \_\_\_\_\_ (Delivery as offered and as accepted will be inserted at contract award).

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

***Phillipe Bisson – Supply Officer***

Public Works and Government Services Canada - Acquisitions Branch  
Logistics, Electrical, Fuel and Transportation Directorate - "HN" Division  
7B3, Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5  
Telephone: (873) 469-3345  
E-mail address: [Phillipe.bisson@pwgsc-tpsgc.gc.ca](mailto:Phillipe.bisson@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 Procurement authority

The Procurement Authority for the Contract is: (will be inserted at contract)

Name:

Title:

Telephone: (xxx) xxx-xxxx Facsimile: (xxx) xxx-xxxx

E-mail:

The Procurement Authority is the representative of the department or agency for whom the Work is being carried out under the Contract. The Procurement Authority is responsible for the implementation of tools and processes required for the administration of the Contract. The Contractor may discuss administrative matters identified in the Contract with the Procurement Authority however the Procurement Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of Work can only be made through a contract amendment issued by the Contracting Authority.

### 6.5.3 Contractor's Representative

Name and telephone number of the person responsible for: (will be inserted at contract)

#### General enquiries

Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Facsimile: \_\_\_\_\_

#### Delivery follow-up

Name: \_\_\_\_\_

Telephone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Facsimile: \_\_\_\_\_

## 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 firm unit prices, as specified in Annex B - Pricing for a cost of \$ \_\_\_\_\_. Customs duties are included and Applicable Taxes are extra.

### 6.6.2 Limitation of Price

SACC Manual clause [C6000C](#) (2017-08-17) Limitation of Price

### 6.6.3 Multiple Payments

SACC Manual clause [H1001C](#) (2008-05-12) Multiple Payments

### 6.6.4 SACC Manual Clauses

SACC Reference	Section	Date
<a href="#">G1005C</a>	Insurance	2016-01-28

## 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 following email address for certification and payment:  
  
- [ic.casu-usac-crc.ic@canada.ca](mailto:ic.casu-usac-crc.ic@canada.ca)
  - (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.  
Department of Public Works and Government Services - "HN" Division  
7B3 Place du Portage, Phase III, 11 Laurier Street, Gatineau, QC, K1A 0S5  
Attention: Phillipe Bisson, Station – 70

## 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 general conditions 2010A (2016-04-04);
- (c) Annex A - Statement of Requirements;
- (d) Annex B – Pricing;
- (e) the Contractor's bid dated \_\_\_\_\_, as clarified on \_\_\_\_\_, as amended on \_\_\_\_\_

## 6.11 SACC Manual Clauses (Delivery)

SACC Reference	Section	Date
<a href="#">D9002C</a>	Incomplete Assemblies	2007-11-30

## 6.12 Shipping Instructions - Delivery at Destination

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

**Delivered Duty Paid (DDP)** to "Innovation, Science and Economic Development Canada, Communications and Research Centre, 3701 Carling Ave, K2H 8S2, Attention: Adam Major" Inco terms 2000 for shipments from a commercial contractor.

## **ANNEX A – Statement of Requirements: Traffic Generator Platform**

The Communications Research Centre Canada has a need for one (1) traffic generator platform. To be considered suitable for our needs, the product and its manufacturer must meet the following requirements. All requirements must be met in a single platform, in respect of having all data traffic and available results routed in one platform. Multiple units cannot be combined to meet requirements.

### Definitions

For the purpose of this document:

- One traffic port is a bi-directional data port (uplink and downlink).
- Real end points are defined as wireless devices e.g. cell phones, laptops and other devices running android, IOS, Linux or Windows

### Requirements

Chassis:

- Must have a minimum of 2 slots for load modules
  - A load module is the card which fits in the chassis and generates, receives, and analyzes the traffic
- Each slot must support network traffic load modules with a minimum of 10 Gigabits/sec per independent port
  - Chassis must support future upgrade path supporting 40 Gigabits/sec and 100 Gigabits/sec load modules

Card Load Module:

- Load module must support a minimum of 4 independent traffic ports.
  - All traffic ports must simultaneously support a minimum of 10 Gigabits/sec of network traffic
  - Traffic ports must support 1GE/10GE, IPv4, IPv6, UDP, TCP
  - All traffic ports must support physical SFP+ interface.
- Card load modules must support Layer 4-7 network performance test application and Stateless Peer (UDP) Ethernet/IP based traffic that is not application based.

Software:

- Software included must support Layer 4-7 network performance test application such as data, video, voice packets.
  - The software must support Data test applications, including: HTTP, HTTPS, TCP, FTP, Database, SSH, TFTP, Application-Replay, DHCP, and Stateless-Peer emulations.

- Data statistics must include the following: Maximum, Minimum and Average: throughput (sent and received), latency, Byte loss (%) and jitter
  - The software must support Video test applications, including: RTSP, IPTV, Adobe Flash Client, and Apple HLS Client emulations.
    - Video statistics must include the following: Maximum, Minimum and Average: throughput (sent and received), latency
  - The software must support Voice test applications, including: Advanced VoIP SIP & RTP, Audio Codecs, VoLTE extensions, and Bulk SIP emulations.
    - Voice statistics must include the following: Maximum, Minimum and Average: throughput (sent and received), MOS score
- Software included must support network performance test application from the network card load modules to/from real end points.
- Software included must support multiple users simultaneously
  - In addition, users must have the ability to reserve traffic ports within network card load modules separately.

#### Contractor/Manufacturer Requirements:

- The Contractor must provide after sales service through a 1 year support contract (begins on date of product delivery) which includes:
  - Software updates
  - Bug fixes
  - Regular business hours telephone support
  - Whenever the unit must be sent to the contractor for service CRC will pay for shipping to contractor and contractor must pay for return shipping.
- Manufacturer must have a valid ISO 9001 certification for at least 5 previous years (Copies of Certifications must be provided).
- Must be a commercially available.

#### Documentation

- A user guide must be supplied in English, in Portable Document Format (PDF).

#### Other:

- Contractor must provide on-site system verification and training as per below:
  - One (1) day training for up to five (5) people at CRC Facilities located at 3701 Carling Ave., Ottawa, Ontario, Canada. Training must be offered in English.
  - Training must be provided within one (1) month after receipt of the request from Industry Canada (IC)

#### Optional Goods – One (1) Card Load Module and supporting Software:

The Communications Research Centre Canada has the potential need to increase the testing capabilities of the traffic generator platform. Therefore, Contractors must be capable of providing one (1) Card Load Module and supporting Software as per the technical specifications below:

#### Card Load Module:

- Load module must support at least 8 independent traffic ports.

- All traffic ports to simultaneously support a minimum of 10 Gigabits/sec of network traffic
- Traffic ports must support 1GE/10GE, IPv4, IPv6, UDP, TCP
- All traffic ports must support physical SFP+ interface.
- Card load modules must support Layer 2-3 network performance test application.

Software:

- Software included must support Layer 2-3 network performance test application
- The software must support Ethernet/IP based traffic generation and Analysis and Frame size vs Throughput testing (RFC 2544).
- Software included must support multiple users simultaneously
  - In addition, users must have the ability to reserve traffic ports within network card load modules separately.

\*\* Please note:

- 1) In order to be considered for Contract award, Bidders must provide pricing for the optional purchase as described above.
- 2) Communications Research Centre Canada (CRCC) may exercise the option within twenty four (24) months after contract award by sending a written notice to the Contractor. (See "Part 6 - Resulting Contract Clauses, Optional Goods" section for contract clause)

**Annex B: U6800-186251 - Pricing**

Item #	Name	Quantity	Delivery Destination	Requested Delivery Date	Offered Unit Price	Offered Delivery (Weeks or Days)
001	Traffic Generator Platform - Must be supplied in accordance with the technical requirements stated in Annex A - Statement of Requirements	1	Ottawa, ON	31-Mar-18	\$ _____ (must be in USD\$)	_____
002	One (1) Year Support for Item 001 - Must be supplied in accordance with the technical requirements stated in Annex A - Statement of Requirements	1	Ottawa, ON	One Year duration (To begin on product delivery date)	\$ _____ (must be in USD\$)	_____
003	Training for Traffic Generator Platform (item 001) - Must be supplied in accordance with the requirements stated in Annex A - Statement of Requirements - Training must be provided within thirty (30) days of receipt of request from Communications Research Centre Canada.	1	Ottawa, ON	Upon request within twelve (12) months after contract award	\$ _____ (must be in USD\$)	_____
Optional 001	Card Load Module and Supporting Software for Item 001 - Must be supplied in accordance with the requirements stated in Annex A - Statement of Requirements	1	Ottawa, ON	Upon request within twenty four (24) months of contract award	\$ _____ (must be in USD\$)	_____
<b>TOTAL PRICE (Item 001 + 002 + 003+Optional 001)</b>					\$ _____ (must be in USD\$)	_____