

**RETURN BIDS TO:**  
**RETOURNER LES SOUMISSIONS À:**  
Travaux publics et Services gouvernementaux  
Canada  
Place Bonaventure, portail Sud-Est  
800, rue de La Gauchetière Ouest  
7 ième étage  
Montréal  
Québec  
H5A 1L6  
FAX pour soumissions: (514) 496-3822

**SOLICITATION AMENDMENT**  
**MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address  
Raison sociale et adresse du  
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution  
Travaux publics et Services gouvernementaux Canada  
Place Bonaventure, portail Sud-Est  
800, rue de La Gauchetière Ouest  
7 ième étage  
Montréal  
Québec  
H5A 1L6

Title - Sujet Diode Pumped Solid State		
Solicitation No. - N° de l'invitation K8D22-150026/A		Amendment No. - N° modif. 001
Client Reference No. - N° de référence du client K8D22-15-0026		Date 2015-10-13
GETS Reference No. - N° de référence de SEAG PW-\$MTA-280-13492		
File No. - N° de dossier MTA-5-38166 (280)	CCC No./N° CCC - FMS No./N° VME	
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-11-17		Time Zone Fuseau horaire Heure Normale du l'Est HNE
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>		
Address Enquiries to: - Adresser toutes questions à: Blanchet, Annie A.		Buyer Id - Id de l'acheteur mta280
Telephone No. - N° de téléphone (514) 496-3519 ( )		FAX No. - N° de FAX (514) 496-3822
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:		

Instructions: See Herein

Instructions: Voir aux présentes

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

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See attached

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## PART 1 - GENERAL INFORMATION

### 1.1 Requirement

The requirement is detailed under Article 6.2 of the resulting contract clauses.

### 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 World Trade Organization Agreement on Government Procurement (WTO-AGP), the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT)."

## 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 (2015-07-03) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

### 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 10 calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by Bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the question(s) or may request that the Bidder do so, so that the proprietary nature of the question(s) is eliminated, and the enquiry can be answered to all Bidders. Enquiries not submitted in a form that can be distributed to all Bidders may not be answered by Canada.

## 2.4 Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Quebec.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the Bidders.

## 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 ( 2 hard copies)

Section II: Financial Bid (1 hard copie)

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 Exchange Rate Fluctuation

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

### Section III: Certifications

Bidders must submit the certifications 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

It is mandatory to provide the technical / descriptive documents of the product that you are offering ( eg. drawing, data sheet, sketch, etc.) to allow it's technical evaluation. Failure to comply will render your bid non responsive.

You have to demonstrate in your technical submission that your product is compliant with every characteristics mentionned in Annex A, Section 3. Mandatory technical specifications.

##### 4.1.1.1 Mandatory Technical Criteria

See Annex "A"

#### 4.1.2 Financial Evaluation

Total amount for financial evaluation: Item 1 of Annex"B" added to item 2 of Annex"B".

##### 4.1.2.1 SACC Manual Clauses

SACC Manual Clause A0222T (2014-06-26), Evaluation of Price

#### 4.2. Basis of Selection - Mandatory Technical Criteria

SACC Manual Clause A0031T (2010-08-16), Basis of Selection - Mandatory Technical Criteria

## **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 Declaration of Convicted Offences**

As applicable, pursuant to subsection Declaration of Convicted Offences of section 01 of the Standard Instructions, the Bidder must provide with its bid, a completed [Declaration Form](http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-eng.html) (<http://www.tpsgc-pwgsc.gc.ca/ci-if/formulaire-form-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 – List of Names**

Bidders who are incorporated, including those bidding as a joint venture, must provide a complete list of names of all individuals who are currently directors of the Bidder.

Bidders bidding as sole proprietorship, as well as those bidding as a joint venture, must provide the name of the owner(s).

Bidders bidding as societies, firms or partnerships do not need to provide lists of names.

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### 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](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)" list ([http://www.labour.gc.ca/eng/standards\\_equity/eq/emp/fcp/list/inelig.shtml](http://www.labour.gc.ca/eng/standards_equity/eq/emp/fcp/list/inelig.shtml)) available from [Employment and Social Development Canada \(ESDC\) - Labour's](#) website.

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



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## PART 6 - RESULTING CONTRACT CLAUSES

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

### 6.1 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 (2015-09-03), 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 \_\_\_\_\_ (*insert the date*).

### 6.5 Authorities

#### 6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Annie Blanchet  
Title: Supply Specialist  
Public Works and Government Services Canada  
Acquisitions Branch

Telephone: 514-496-3519  
Facsimile: 514-496-3822  
E-mail address: [annie.blanchet@tpsgc.gc.ca](mailto:annie.blanchet@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.

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### 6.5.2 Technical Authority

The Technical Authority for the Contract is:

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

The Technical Authority named above 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

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

## 6.6 Payment

### 6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in contract for a cost of \$ \_\_\_\_\_ insert the amount at contract award). Customs duties are included and Applicable Taxes are extra.

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

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## 6.6.2 Limitation of Price

SACC Manual clause C6000C (2011-05-16) Limitation of Price

## 6.6.3 SACC Manual Clauses

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

SACC Manual clause C2000C (2007-11-30) Taxes - Foreign-based Contractor

## 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:  
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 \_\_\_\_\_. (*Insert the name of the province or territory as specified by the Bidder in its bid, if applicable*)

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## 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 (2015-09-03), Goods (Medium Complexity
- (d) Annex A, Requirement;
- (e) Annex B, Basis of payment
- (f) the Contractor's bid dated \_\_\_\_\_ (*insert date of bid*) (*If the bid was clarified or amended, insert at the time of contract award: “, as clarified on \_\_\_\_\_” or “, as amended on \_\_\_\_\_” and insert date(s) of clarification(s) or amendment(s)*)

## 6.11 SACC Manual Clauses

SACC Manual clause A9068C (2010-01-11) Government Site Regulations

SACC Manual clause G1005C (2008-05-12) Insurances

## **ANNEX "A"- REQUIREMENT**

### **Diode Pumped Solid State 355 nm Laser**

#### **1.0 Introduction**

Environment Canada is interested in acquiring one diode pumped solid state 355 nm laser as the transmitter for an autonomous aerosol Lidar to be deployed to the Canadian arctic for monitoring of aerosol transport and dynamics.

The prime purpose is to observe the vertical distribution and dynamics of aerosols in the troposphere above Iqaluit, Nunavut. This will be accomplished by deploying an autonomous Lidar system to Iqaluit based on diode-pumped Nd:YAG laser technology, which can operate without maintenance for significantly longer periods of time compared to flash-lamp pumped Nd:YAG lasers, thus reducing operational costs associated with periodic maintenance trips. This type of laser is similar to ones used in space-based applications, so the reliability and durability of this technology are well established.

#### **2.0 Technical Specifications**

##### **2.1 Overall Performance Requirements**

**2.1.1** The diode pumped solid state Nd:YAG laser (described as laser) must be required to operate both with an on-site operator and from a remote location. It must operate in an enclosed location with minimal maintenance requirements with on-site visits to be between 3 and 12 months to change the coolant. It must be able to operate with a 24/7 duty cycle for not less than the period of the diode warranty, which is 2 years or 10,000 operating hours.

**2.1.2** The laser must emit all wavelengths co-axially with power/energy monitoring for reference purposes.

**2.1.3** The laser cooling system must be self-contained; not requiring any external plumbing.

#### **3. Mandatory Technical Specifications**

The Diode pumped solid state Nd:YAG laser must meet each of the specifications outlined below:

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### 3.1 System Performance must include:

Item		Specify the location in the documentation submitted with the bid where is demonstrated the technical specification.
1	Must emit 355±1 nm as primary wavelength	
2	Must emit 532±1 and 1064±1 nm as secondary wavelengths	
3	All three wavelengths must have a common output window	
4	Must have power requirements of 50/60 Hz at 240V ±10%	
5	Must include self-contained cooling	
6	Must include safety interlocks to prevent injury and/or damage to the laser	

### 3.2 Detailed Laser Power Supply Requirements:

Item		Specify the location in the documentation submitted with the bid where is demonstrated the technical specification.
7	Must be compatible with 19" computer rack standard	
8	Must include a minimum 5m umbilical (coolant and electrical) length	

### 3.3 Detailed Laser Head Requirements:

Item		Specify the location in the documentation submitted with the bid where is demonstrated the technical specification.
9	Must emit 355±1, 532±1 and 1064±1 nm wavelengths co-axially	
10	Pulse energy must be > 100 mJ at the 355 nm wavelength	
11	Beam diameter must be 6±2 mm at the exit window	
12	Beam divergence (full angle) must be < 6mrad	
13	Repetition rate must be 100Hz	
14	Laser head dimensions must not exceed 3'x5'	
15	Must include power/energy monitoring for reference only	
16	Pulse width must be < 10ns	
17	Beam quality M <sup>2</sup> must be between 4 and 6	
18	Diode warranty must span 2 years or 10,000 operating hours	

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### 3.4 Detailed Chiller Requirements:

Item		<b>Specify the location in the documentation submitted with the bid where is demonstrated the technical specification.</b>
19	Chiller must be compatible with 19" computer rack standard	
20	Must operate with a glycol-based coolant	
21	Chiller must be able to operate with coolant changes occurring no more frequently than between 3 and 12 months	

### 4. Supplemental item

A spare DPSS module for the oscillator portion of the laser must be provided with the laser.

The bidder will provide exit window dimensions to Environment Canada so a custom output window can be installed at a later date if desired by EC personnel.



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## **5. Others requirements**

### **5.1 Transportability/Housing**

Environment Canada is planning to locate the laser at various sites across Canada for extended periods of time (several months to years). Transportability must be allowed for under traffic and highway acts in all provinces and territories within Canada.

### **5.2 Documentation**

The Contractor must provide at the time of delivery, in English, documentation that will include all necessary installation, operation and maintenance details.

### **5.3 Delivery and On-Site Acceptance**

The overall system must be delivered to Environment Canada where it will undergo a full acceptance test carried out by the contractor under the observation of the EC team. Acceptance of the laser will only occur once all specifications have been met. The warranty period will commence upon final acceptance by Environment Canada.

### **5.4 Delivery**

The Contractor must deliver goods to:

Environment Canada  
Atmospheric Science and Technology Directorate  
Processes Research Section,  
6248 Eighth Line  
Egbert, Ontario Canada  
L0L 1N0

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### ANNEX "B"- BASIS OF PAYMENT

Description	Quantity	Price
1.Diode pumped solid state (DPSS) laser as per technical specifications mentioned in Annex "A" including delivery and documentation .	1	\$ _____
2.A spare DPSS module for the oscillator portion of the laser as mentioned in Annex "A", point 4.	1	\$ _____