

**RETURN BIDS TO:  
RETOURNER LES SOUMISSIONS À:**  
Réception des soumissions - TPSGC / Bid  
Receiving - PWGSC  
1550, Avenue d'Estimauville  
1550, D'Estimauville Avenue  
Québec  
Québec  
G1J 0C7

**REQUEST FOR PROPOSAL  
DEMANDE DE PROPOSITION**

**Proposal To: Public Works and Government  
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services  
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

**Comments - Commentaires**

<b>Title - Sujet</b> RDDC-COLOR LASER	
<b>Solicitation No. - N° de l'invitation</b> W7701-155969/A	<b>Date</b> 2014-11-05
<b>Client Reference No. - N° de référence du client</b> W7701-155969	
<b>GETS Reference No. - N° de référence de SEAG</b> PW-\$QCL-039-16179	
<b>File No. - N° de dossier</b> QCL-4-37207 (039)	<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 2014-12-16</b>	<b>Time Zone</b> <b>Fuseau horaire</b> Heure Normale du l'Est HNE
<b>F.O.B. - F.A.B.</b> <b>Plant-Usine:</b> <input type="checkbox"/> <b>Destination:</b> <input checked="" type="checkbox"/> <b>Other-Autre:</b> <input type="checkbox"/>	
<b>Address Enquiries to: - Adresser toutes questions à:</b> Prieur, Patrick	<b>Buyer Id - Id de l'acheteur</b> qcl039
<b>Telephone No. - N° de téléphone</b> (418) 649-2766 ( )	<b>FAX No. - N° de FAX</b> (418) 648-2209
<b>Destination - of Goods, Services, and Construction:</b> <b>Destination - des biens, services et construction:</b> MINISTERE DE LA DEFENSE NATIONALE VALCARTIER RESEARCH CENTER, BLDG 65 2459 DE LA BRAVOURE RD QUEBEC Québec G3J1X5 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**

TPSGC/PWGSC  
601-1550, Avenue d'Estimauville  
Québec  
Québec  
G1J 0C7

<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>

Solicitation No. - N° de l'invitation

W7701-155969/A

Client Ref. No. - N° de réf. du client

W7701-155969

Amd. No. - N° de la modif.

File No. - N° du dossier

QCL-4-37207

Buyer ID - Id de l'acheteur

qcl039

CCC No./N° CCC - FMS No/ N° VME

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**TITLE: TWO COLOR PULSED LASER**

**PART 1 - GENERAL INFORMATION**

**1. Requirement**

Defence Research and Development Canada – Valcartier (DRDC) has a requirement for the supply and delivery of one (1) pulsed laser system with the specifications of Annex A.

**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 of receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

**3. Trade Agreements**

The requirement is subject to the provisions of the North American Free Trade Agreement (NAFTA), and the Agreement on Internal Trade (AIT).

**PART 2 - BIDDER INSTRUCTIONS**

**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 \(2014-09-25\)](#) 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: 30 days

**1.1 SACC Manual Clauses**

[Condition of Material - Bid \(2014-06-26\) B1000T](#)

**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.

### 3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority, preferably via email at [gabriel.piras@tpsgc-pwgsc.gc.ca](mailto:gabriel.piras@tpsgc-pwgsc.gc.ca), **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.

### 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

### 1. Bid Preparation Instructions

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

Section I: Technical Bid (5 hard copies)

Section II: Financial Bid (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 mandatory and point rated technical criteria described in sections 1.1.1 and 1.1.2 Part 4, of this document.

### **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.

#### **1.1 Exchange Rate Fluctuation**

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

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

### **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.

#### **1.1 Technical Evaluation**

##### **1.1.1 Mandatory Technical Criteria**

The bidder must fill out and include with its proposal, the table of mandatory specifications of the requirements.

**IMPORTANT:** The Bidder must indicate, for each mandatory criteria, whether the proposed equipment complies or not by checking the relevant box. The Bidder must clearly demonstrate how the proposed equipment complies to each criteria. Where it is necessary to refer to other documentation that is included in the proposal, Bidders should include the precise location of the reference material including the title of the document, and the page and paragraph numbers. It is imperative that the bidder provides an answer for each criterion. It is the bidder's responsibility to provide enough details to permit a complete evaluation.

**Title : Mandatory specifications of the requirements**

	<b>Technical Mandatory Criteria</b>	<b>Compliant</b>	<b>Non Compliant</b>	<b>Description References</b>
#1	Provide technical information (data sheetes and/or technical specifications) that assesses the following #2 to #6 criteria.			
#2	Wavelengths :532 nm and 1064 nm (single wavelength at the time)			
#3	Energy per pulse at 1064 nm (without the attenuator): $\geq 300$ mJ			
#4	Energy per pulse at 532 nm (without the attenuator): $\geq 150$ mJ			
#5	Pulse repetition rate: up to 30 Hz			
#6	Laser pulse synchronization: Internally and externally			

**1.1.2 Point Rated Technical Criteria**

Each technical offer that meets all the mandatory requirements defined above will be evaluated and rated in terms of the evaluation criteria below.

	<b>Point Rated Technical Criteria</b>	<b>Minimum</b>	<b>Maximum</b>
#1	Electrical service :  (a) 110-120V at 50-60 Hz : 10 pts (b) 200-240V at 50-60 Hz : 15 pts: (c) 110-120V and 200-240V, at 50-60 Hz :30 pts	<b>10</b>	<b>30</b>
#2	Variable Attenuator : Output energy adjustable  (a) From $\leq 10\%$ to $\geq 70\%$ of the maximum energy: 15 pts (b) From $\leq 10\%$ to $\geq 75\%$ of the maximum energy: 20 pts (c) From $\leq 10\%$ to $\geq 80\%$ of the maximum energy: 25 pts (d) From $\leq 10\%$ to $\geq 85\%$ of the maximum energy: 30 pts	<b>15</b>	<b>30</b>
#3	Control of the variable attenuator :  (a) Manual : 10 pts (b) Manual, with a calibrated knob : 15 pts (c) Computer controlled : 20 pts	<b>10</b>	<b>20</b>

#4	Weight of the power supply :  (a) ≤30kg but > 25kg : 20 pts (b) ≤25kg but > 20kg : 30 pts (c) ≤20kg but > 15kg : 40 pts (d) ≤15kg : 50 pts	<b>20</b>	<b>50</b>
#5	Switching between the two wavelengths (532 nm-1064 nm)  (a) A module to add or remove : 10 pts (b) No module to add or remove, push button : 25 pts (c) No module to add or remove, computer controlled: 30 pts	<b>10</b>	<b>30</b>
#6	Operating temperature (meeting the required specifications) :  (a) 20 to 30 degrees Celsius : 10 pts (b) 15 to 30 degrees Celsius : 20 pts (c) 10 to 30 degrees Celsius : 30 pts (d) 10 to 35 degrees Celsius : 40 pts	<b>10</b>	<b>40</b>
#7	Length of the cables between power supply and laser head:  (a) ≥ 5 m but < 7 m : 20 pts (b) ≥ 7 m but < 10 m : 30 pts (c) ≥ 10 m : 50 pts	<b>20</b>	<b>50</b>

## 1.2 Evaluation of Price

The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, Canadian customs duties and excise taxes included. The total amount of Applicable Taxes must be shown separately.

## 2. Basis of Selection - Lowest Evaluated Price Per Point

1. To be declared responsive, a bid must:
  - (a) comply with all the requirements of the bid solicitation;
  - (b) meet all mandatory technical evaluation criteria; and
  - (c) obtain the required minimum points for each criterion with a pass mark.

Bids not meeting (a) or (b) or (c) will be declared non-responsive. Neither the responsive bid that receives the highest number of points nor the one that proposed the lowest price will necessarily

be accepted. The responsive bid with the lowest evaluated price per point will be recommended for award of a contract. The evaluated price per point will be determined by dividing the evaluated price of the bid by the number of points obtained for the point rated technical evaluation criteria.

In the event that two or more responsive bids have the same lowest evaluated price per point, the responsive bid which obtained the highest number of points overall for the point rated technical evaluation criteria will be recommended for award of a contract.

## **PART 5 - CERTIFICATIONS**

Bidders must provide the required certifications and associated 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 in carrying out any of its obligations under the Contract, 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 may render the bid non-responsive or constitute a default under the Contract.

### **1. Certifications Required Precedent to Contract Award**

#### **1.1 Integrity Provisions - Associated Information**

By submitting a bid, the Bidder certifies that the Bidder and its Affiliates are in compliance with the provisions as stated in Section 01 Integrity Provisions - Bid of Standard Instructions [2003](#). The associated information required within the Integrity Provisions will assist Canada in confirming that the certifications are true.

#### **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 ([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.

## **PART 6 - RESULTING CONTRACT CLAUSES**

### **1. Security Requirement**

There is no security requirement applicable to this Contract.

## 2. Statement of Requirement

Defence Research and Development Canada – Valcartier (DRDC) has a requirement for the supply and delivery of one (1) pulsed laser system with the specifications of Annex A.

## 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>) issued by Public Works and Government Services Canada.

### 3.1 General Conditions

2010A (2014-09-25) General Conditions – Goods (Medium Complexity), apply to and form part of the Contract.

## 4. Term of Contract

### 4.1 Period of the Contract

The period of the Contract is from date of Contract to 2015-03-31 inclusive.

The schedule of deliverables is specified in Section 6.2 of the Contract.

## 5. Authorities

### 5.1 Contracting Authority

The Contracting Authority for the Contract is:

Gabriel Piras  
Public Works and Government Services Canada  
601-1550 D'Estimauville  
Quebec, Qc  
G1J 0C7

Telephone: 418-649-2870  
Facsimile: 418-648-2209  
E-mail address [Gabriel.Piras@tpsgc.pwgsc.gc.ca](mailto:Gabriel.Piras@tpsgc.pwgsc.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.

### 5.2 Technical Authority

The Technical Authority for the Contract is:

**(Will be completed by Canada at the time of contract award)**

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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 Project Authority, however the Project Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

**5.3 Contractor's Representative (Will be completed by Canada at the time of contract award)**

**General enquiries:**

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

**Delivery follow-up:**

Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Address: \_\_\_\_\_

Telephone: \_\_\_\_\_  
Facsimile: \_\_\_\_\_  
E-mail address: \_\_\_\_\_

**6. Payment**

**6.1 Basis of Payment: Firm Price**

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price for a cost of \$ \_\_\_\_\_ (*insert the amount at contract award*). FOB Destination, 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.

**6.2 Milestone Payments**

The schedule of milestones for which payments will be made in accordance with the Contract is as follows:

Milestone No.	Description or Deliverable	Firm Amount	Delivery Date
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1	Delivery of the Two color pulsed laser. Supplying user's manual and technical data when delivering the laser system. Supplying calibration certification when delivering the laser system.	90% of the total value disclosed in the contract.	Before or on 2015-02-16
2	Technical assistance for the initial installation and the initial start of the laser system.	10% of the total value disclosed in the contract.	Before or on 2015-03-31

## 7. Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
  - (a) The original and one (1) copy must be forwarded to the address shown on page 1 of the Contract for certification and payment.
  - (b) One (1) copy must be forwarded to the Contracting Authority identified under the section entitled "Authorities" of the Contract.

## 8. Certifications

### 8.1 Compliance

The continuous compliance with the certifications provided by the Contractor in its bid and the ongoing cooperation in providing associated 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 associated 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.

## 9. Applicable Laws

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

## 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) 2010A (2014-06-26), General Conditions - Goods (Medium Complexity)

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- (c) Annex A, Statement of Requirement;
- (d) the Contractor's bid dated \_\_\_\_\_ (*date of bid to be inserted at Contract award*)

**11. SACC Manual Clauses**

[Excess Goods \(2006-06-16\) B7500C](#)

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## ANNEX "A"

### STATEMENT OF REQUIREMENT

#### 1. TITLE

Two color pulsed laser

#### 2. BACKGROUND

Defence Research and Development Canada – Valcartier want to purchase one (1) pulsed laser system emitting at 1064 nm and 532 nm (a single wavelength at the time) to upgrade an existing field test system.

The required performances and physical characteristics of the laser are set by the existing system into which it will be integrated and by the operation conditions. The laser must be compact, robust (build to withstand harsh environments) and have minimum requirements for the energy per pulse, pulse repetition frequency (PRF), beam quality, and needs to be synchronized with an external trigger.

#### 3. ACRONYMS

**cm:** Centimeter  
**Hz:** Hertz  
**kg:** kilogram  
**m:** meter  
**mrad:** millirad  
**mJ:** Millijoule  
**mm:** millimeter  
**nm:** Nanometer  
**rms:** root mean square  
**W:** wAtt  
**V:** Volts  
**M<sup>2</sup>:** spatial beam quality

#### 4. APPLICABLE DOCUMENTS & REFERENCES

None

#### 5. REQUIREMENTS

##### 5.1 Two color pulsed laser

**Required quantity: 1**

The Contractor must provide and deliver the requirement with the following specifications:

Specification	Value
External dimensions of the laser head:	≤ 10 cm wide x 40 cm depth x 10 cm height

Weight of the laser head:	≤ 6 kg
External dimensions of the laser power supply:	≤ 50 cm wide x 65 cm depth x 45 cm height
Weight of the laser power supply	≤ 30 kg
Cooling of the laser system:	Air cooling or close loop water cooling
Length of the cables between power supply and laser head	≥ 5 m
Wavelengths	1064 nm and 532 nm (one at the time)
Laser beam divergence (532 nm and 1064 nm)	≤ 1.5 mrad at 1/e <sup>2</sup>
Laser pulse width	Between 5 to 10 ns
Variable laser beam attenuator	Variable output energy between at least 10% to 70% of the maximum laser energy
Energy per pulse of the laser beam output without the variable attenuator:	≥ 300 mJ (1064 nm) and ≥ 150mJ (532 nm)
Pulse repetition rate:	Up to 30 Hz
Beam diameter:	≤ 7 mm (measured at full width at half maximum)
Electrical service	110-120V or 200-240V at 50-60 Hz
Laser pulse synchronization	Internally and externally

## **5.2 Accessories**

The Contractor must provide the following accessories for requirement 5.1:

	<b>Description</b>	<b>Required quantity</b>
5.2.1	The contractor must provide user's manual and technical data when delivering the laser system.	<b>1</b>
5.2.2	The contractor must provide calibration certification when delivering the laser system.	<b>1</b>
5.2.3	The contractor must provide a technical assistance on DRDC-Valcartier site for the initial installation and the initial start of the laser system.	<b>1</b>

## 6. DELIVERABLES

Number	Requirement reference	Description of deliverable	Percentage of contract value	Quantity and Format
6.1	5.1	Must deliver a functional nanosecond 1064-532 nm laser system as described in Section 5.1 " Two color pulsed laser "	90%	1
	5.2.1	The contractor must provide user's manual and technical data when delivering the laser system.		
	5.2.2.	The contractor must provide calibration certification when delivering the laser system.		
6.2	5.2.3	Must deliver a technical assistance on DRDC-Valcartier site for the initial installation and the initial start of the laser system.	10%	1

## 7. DATE OF DELIVERY

**Deliverable 6.1:** Before or on Feb 16<sup>th</sup>, 2015.

**Deliverable 6.2:** Before or on March 31<sup>st</sup> 2015.

## 8. LANGUAGE OF WORK

English or French.