

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving
PWGSC
33 City Centre Drive
Suite 480C
Mississauga
Ontario
L5B 2N5
Bid Fax: (905) 615-2095

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

Title - Sujet Scanning Dopplar Lidar	
Solicitation No. - N° de l'invitation KM175-141105/A	Date 2015-03-12
Client Reference No. - N° de référence du client KM175-141105	
GETS Reference No. - N° de référence de SEAG PW-\$TOR-031-6814	
File No. - N° de dossier TOR-4-37161 (031)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-04-22	Time Zone Fuseau horaire Eastern Daylight Saving Time EDT
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: Schmidt, Jeff	Buyer Id - Id de l'acheteur tor031
Telephone No. - N° de téléphone (905) 615-2058 ()	FAX No. - N° de FAX (905) 615-2060
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF THE ENVIRONMENT 4905 Dufferin Street Downsview Ontario M3H5T4 Canada	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address

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

Delivery Required - Livraison exigée See Herein	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

Solicitation No. - N° de l'invitation

KM175-141105/A

Amd. No. - N° de la modif.

File No. - N° du dossier

TOR-4-37161

Buyer ID - Id de l'acheteur

tor031

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

KM175-141105

CCC No./N° CCC - FMS No/ N° VME

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PART 1 - GENERAL INFORMATION

1.1 Introduction

The bid solicitation is divided into six parts plus attachments and annexes, as follows:

- Part 1 General Information: provides a general description of the requirement;
- Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation;
- Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;
- Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, and the basis of selection;
- Part 5 Certifications: includes the certifications to be provided;
- Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Requirement, the Basis of Payment, the Federal Contractors Program for Employment Equity - Certification, the Insurance Requirements, and any other annexes.

1.2 Summary

The Cloud Physics and Severe Weather Research Section of Environment Canada, Toronto, ON, requires the supply, delivery, installation and training of one (1) Scanning Doppler Lidar (SDL). The SDL must provide rapid scan (update cycles of ~1 minute), high resolution measurements of planetary boundary layer wind fields (~10 m range resolution) for research, application development and demonstration purposes. The instrument will be located at Toronto Pearson International Airport but it will also be operated at unmanned remote locations in harsh Canadian environments.

All the firm deliverables must be received on or before March 31, 2016.

The requirement includes the option to purchase an additional unit and warranty support.

As per the Integrity Provisions under section 01 of Standard Instructions [2003](#), bidders must provide a list of all owners and/or Directors and other associated information as required. Refer to section [4.21](#) of the *Supply Manual* for additional information on the Integrity Provisions.

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).

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.

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 (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: 120 days

2.2 Submission of Bids

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

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 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.

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.

2.5 Best Delivery Date

While delivery is requested by September 30, 2015 the best delivery that could be offered is _____.

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 (3 hard copies)

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 demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex B. The total amount of Applicable Taxes must be shown separately.

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, financial, and evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

4.1.1 Technical Evaluation

Mandatory General Requirements, Mandatory Technical Specifications and Point Rated Technical Evaluation Criteria are included in Annex D, Evaluation.

4.1.2 Financial Evaluation

4.1.2.1 Mandatory Financial Criteria

- a) Bidders must submit pricing for Section 1, Firm Requirement and Section 2, Optional Requirement in accordance with Annex B, Basis of Payment, with their bid at bid closing. Bidder's may submit pricing for Section 3, Optional Warranty Support. Section 3, Optional Warranty Support will not be included in the Financial Evaluation.
- b) The evaluated price will be the sum of the Firm Lot Prices in Section 1, Firm Requirement, Section 2, Optional Requirement and Section 3, Optional Warranty Support at Annex B, Basis of Payment;
- c) *SACC Manual* Clause [A0220T](#) (2014-06-26), Evaluation of Price - Bid

4.2 Basis of Selection – Highest Combined Rating of Technical Merit and Price

1. To be declared responsive, a bid must:
 - a. comply with all the requirements of the bid solicitation; and
 - b. meet all mandatory criteria; and
 - c. obtain the required minimum of 250 points overall for the technical evaluation criteria which are subject to point rating.

The rating is performed on a scale of 1,137 points.
2. Bids not meeting (a) or (b) or (c) will be declared non-responsive.
3. The selection will be based on the highest responsive combined rating of technical merit and price. The ratio will be 70% for the technical merit and 30% for the price.
4. To establish the technical merit score, the overall technical score for each responsive bid will be determined as follows: total number of points obtained / maximum number of points available multiplied by the ratio of 70%.
5. To establish the pricing score, each responsive bid will be prorated against the lowest evaluated price and the ratio of 30%.
6. For each responsive bid, the technical merit score and the pricing score will be added to determine its combined rating.

7. Neither the responsive bid obtaining the highest technical score nor the one with the lowest evaluated price will necessarily be accepted. The responsive bid with the highest combined rating of technical merit and price will be recommended for award of a contract.

The table below illustrates an example where all three bids are responsive and the selection of the contractor is determined by a 70/30 ratio of technical merit and price, respectively. The total available points equals 135 and the lowest evaluated price is \$45,000 (45).

Basis of Selection - Highest Combined Rating Technical Merit (70%) and Price (30%)

		Bidder 1	Bidder 2	Bidder 3
Overall Technical Score		115/135	89/135	92/135
Bid Evaluated Price		\$55,000.00	\$50,000.00	\$45,000.00
Calculations	Technical Merit Score	115/135 x 70 = 59.63	89/135 x 70 = 46.15	92/135 x 70 = 47.70
	Pricing Score	45/55 x 30 = 24.55	45/50 x 30 = 27	45/45 x 30 = 30.00
Combined Rating		84.18	73.15	77.70
Overall Rating		1 st	3 rd	2 nd

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.

5.1 Certifications Precedent to Contract Award

The certifications listed below should be completed and submitted with the bid but may be submitted afterwards. If any of these required certifications 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 comply with the request of the Contracting Authority and to provide the certifications within the time frame specified will render the bid non-responsive.

5.1.1 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.

5.1.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "[FCP Limited Eligibility to Bid](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) 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

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

6.1 Requirement - Contract

The Contractor must provide the items detailed under the "Requirement" at Annex A.

6.1.1 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex B, Basis of Payment, of the Contract under the same conditions and at the prices and/or rates stated in the Contract. The option may only be exercised by the Contracting Authority and will be evidenced, for administrative purposes only, through a contract amendment.

The Contracting Authority may exercise the option at any time before the expiry of the Contract by sending a written notice to the Contractor.

6.2 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.

6.2.1 General Conditions

[2030](#) (2014-09-25), General Conditions - Higher Complexity - Goods, apply to and form part of the Contract.

6.2.2 Supplemental General Conditions

4001 (2013-01-28) Hardware Purchase Lease and Maintenance, apply to and form part of the Contract;

4003 (2010-08-16) Licensed Software, apply to and form part of the Contract;

4004 (2013-04-25) Maintenance and Support Services for Licensed Software, apply to and form part of the Contract.

6.3 Security Requirements

6.3.1 There is no security requirement applicable to this Contract.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to March 31, 2019.

6.4.2 Delivery Date

All the deliverables must be received within _____ weeks of Contract award.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Jeff Schmidt
Title: Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
Address: 33 City Centre Dr, Suite 480C
Mississauga, ON L5B 2N5

Telephone: 905-615-2058
Facsimile: 905-615-2060
E-mail address: jeff.schmidt@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.

6.5.2 Technical Authority

The Technical Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____-____-_____
Facsimile: ____-____-_____
E-mail address: _____

The Technical Authority is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the 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.

6.5.3 Contractor's Representative (*Bidder to complete*)

Name: _____
Title: _____
Organization: _____
Address: _____

Telephone: ____-____-_____
Facsimile: ____-____-_____
E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment - Firm Price, Firm Unit Price(s) or Firm Lot Price(s)

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm lot price, as specified in Annex B, Basis of Payment for a cost of \$ _____. Customs duties are included, and Applicable Taxes are extra.

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

6.6.2 Limitation of Price

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

6.6.3 Single Payment

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

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.

Each invoice must be supported by:

- a) a copy of the release document and any other documents as specified in the Contract;
- b) the Contract number

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.

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 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.

6.9 Applicable Laws

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

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4001 (2013-01-28) Hardware Purchase Lease and Maintenance;
- (c) the supplemental general conditions 4003 (2010-08-16) Licensed Software;
- (d) the supplemental general conditions 4004 (2013-04-25) Maintenance and Support Services for Licensed Software;
- (e) the general conditions 2030 (2014-09-25), General Conditions - Higher Complexity - Goods;
- (f) Annex A, Requirement;
- (g) Annex B, Basis of Payment;
- (h) Annex C, Insurance Requirements;
- (i) the Contractor's bid dated _____.

6.11 Insurance Requirements

The Contractor must comply with the insurance requirements specified in Annex C. The Contractor must maintain the required insurance coverage for the duration of the Contract. Compliance with the insurance requirements does not release the Contractor from or reduce its liability under the Contract.

The Contractor is responsible for deciding if additional insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any additional insurance coverage is at the Contractor's expense, and for its own benefit and protection.

The Contractor must forward to the Contracting Authority within ten (10) days after the date of award of the Contract, a Certificate of Insurance evidencing the insurance coverage and confirming that the insurance policy complying with the requirements is in force. For Canadian-based Contractors, coverage must be placed with an Insurer licensed to carry out business in Canada, however, for Foreign-based Contractors, coverage must be placed with an Insurer with an A.M. Best Rating no less than "A-". The Contractor must, if requested by the Contracting Authority, forward to Canada a certified true copy of all applicable insurance policies.

ANNEX A

REQUIREMENT

Scanning Doppler Lidar for Wind Measurements

1.0 Introduction

The Cloud Physics and Severe Weather Research Section of Environment Canada, Toronto, ON, requires the supply, delivery, installation and training of one (1) Scanning Doppler Lidar (SDL). The SDL must provide rapid scan (update cycles of ~1 minute), high resolution measurements of planetary boundary layer wind fields (~10 m range resolution) for research, application development and demonstration purposes. The instrument will be located at Toronto Pearson International Airport but it will also be operated at unmanned at remote locations in harsh Canadian environments.

The Scanning Doppler Lidar measurements will be used to monitor wind shifts and strengths due to frontal passages, gust fronts, microbursts and wave vortices. It will be used to generate timely wind warnings and short range forecasts, to validate NWP model and satellite winds and to make inter-comparisons with other remote sensing wind and aerosol backscatter instruments.

2.0 Mandatory Technical Specifications

The system must operate both with an operator and unmanned and at remote locations in harsh Canadian environments.

ITEM #	ITEM	MANDATORY REQUIREMENT
1.2.1 GENERAL		
1.2.1.1	Remote Operations	Remote operator must be able to start, stop lidar, configure scanning, display system and hardware parameters and data collection remotely (via internet connection)
1.2.1.2	Remote Display Functionality	Remote operator must be able to view the data as a time-height display.
1.2.1.3	System Maintenance	Operator must be able to perform basic system maintenance (check disk usage, download data, delete and edit files) either remotely or locally.
1.2.1.4	Manned Operations	Operator must be able to start, stop lidar, configure scanning, display system and hardware parameters and data collection at the lidar site.
1.2.1.5	In-situ Display Functionality	Operator must be able to view basic products at the lidar site.
1.2.2 HARDWARE		
1.2.2.1	Environment	The SDL hardware must be: i) Weather proofed (system design must be such that electronics and sensors will be protected in precipitating, freezing rain and strong wind conditions); ii) Temperature stabilized; iii) Include a minimum -25°C to maximum 40°C enclosure or better; iv) Humidity minimum 10% to maximum 100% or better.

1.2.2.2	Weight	Must be less than 3000 kg
1.2.2.3	Dimensions including enclosure	Must be less than 2.0 m x 3.0 m x 4.0 m or smaller
1.2.2.4	Power requirements	Must be 110-240VAC 50-60Hz (with DC converter supplied if required) with less than 60A service
1.2.3 TRANSMITTER		
1.2.3.1	Eye safety	Must be eye safe. Class 1M (IEC/EN 60825-1 compliant)
1.2.3.2	Laser wavelength	Must be between 1.4 to 2.2 μm (maximum)
1.2.3.3	Laser pulse energy	Must be equal to or greater than 2 μJ (micro joule).
1.2.4 SCANNER OPERATION		
1.2.4.1	Azimuth range	Must have a range of 0 to 360 degrees
1.2.4.2	Elevation range	Must have an elevation range of -2° to 92°.
1.2.4.3	Pointing accuracy	Pointing accuracy must be 0.1°
1.2.4.4	Scanning modes	Must have the following scan modes: <ol style="list-style-type: none"> 1. Stare (or line of sight, constant in azimuth and elevation); 2. Plan Position Indicator (PPI, constant in elevation, scanning in azimuth); 3. Wind Profiling (scan in a sequence of fixed azimuths and elevations; typically but not limited to east-west, north-south and vertical beams); 4. Volume Scanning (sequences of PPI at different elevation angles); 5. Range Height Indicator (constant azimuth and scanning in elevation).
1.2.5 PERFORMANCE		
1.2.5.1	Data Acquisition Range	Maximum range of the data acquisition must be a minimum of 4 km.
1.2.5.2	Radial wind velocity range	Must be a minimum of 15 m/s.
1.2.5.3	Wind velocity accuracy	Must be equal to less than 0.5 m/s.
1.2.6 LIDAR CONTROL /CONFIGURATION /PRODUCTS		
1.2.6.1	Operating system	Must be Linux or Windows
1.2.6.2	Remote control/data transfer	Must provide at least one Ethernet / LAN port. connection
1.2.6.3	Data format	Must be fully documented.
1.2.6.4	Data Storage	Must be able to store 5 days of lidar data and products.

1.2.6.5	Output	The Lidar data file output must include the following: <ol style="list-style-type: none">1. Scanner identification2. Data acquisition time;3. Beam position (azimuth and elevation);4. Range resolution information5. Data moments:<ul style="list-style-type: none">o Backscatter Intensity;o Radial wind speed.
1.2.6.6	Lidar Control	Graphical interface for lidar control must include : <ol style="list-style-type: none">1. Instrument scan control;2. Scan configuration;3. Data acquisition settings (range resolution, maximum range, number of samples, etc);4. Display of diagnostics and alerts.
1.2.6.7	Software	Must include software and license for off-line user processing.
1.2.6.8	Platform	Must be a commercial off the shelf PC for remote control software and data display

3. Additional Requirements

3.1 The SDL must have CSA (Canadian Standards Associations) certification at time of delivery.

3.2 The Contractor must demonstrate during acceptance that the performance can be achieved.

4. Documentation

The user software and instrument set up procedure must be fully documented in English. The output data formats must be documented for decoding for external processing.

5. Acceptance/Training

5.1 On-site Acceptance – The complete system must be delivered to Environment Canada where it will undergo and must pass a full factory acceptance test carried out by the contractor under the supervision of the EC team.

5.2 Training – The Contractor must provide a two-day in-person training for installation, maintenance and software use for approximately five (5) Environment Canada staff during the acceptance process.

5.3 Optional On-Site Warranty Support – The Contractor must provide parts, labour and software and on-site warranty support for the Scanning Dopplar Lidar.

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ANNEX B

BASIS OF PAYMENT

Firm lot pricing in Canadian funds including Canadian customs duties, excise taxes, F.O.B. destination and any delivery. Applicable Taxes are extra, if applicable.

1. Firm Requirement

Requirement	Firm Lot Price
For the supply, delivery, installation, acceptance testing and training of one (1) Scanning Dopplar Lidar (SDL) in accordance with Annex A, Requirement. Make: _____ Model: _____	\$ _____

2. Optional Requirement

The Optional Requirement may be exercised at any time within the first two years of contract award.

Requirement	Firm Lot Price
For the supply, delivery, installation and acceptance testing of one (1) Scanning Dopplar Lidar (SDL) in accordance with Annex A, Requirement.	\$ _____

3. Optional Warranty Support

Option 1 may be exercised at any time during the first 12 months of the Contract;
Option 2 may be exercised at any time during the first 24 months of the Contract.

Requirement		Firm Lot Price
Second year Scanning Dopplar Lidar warranty in accordance with Item 5.3 of Annex A, Requirement	Firm Scanning Dopplar Lidar	\$ _____
	Optional Scanning Dopplar Lidar	\$ _____
Third year Scanning Dopplar Lidar warranty in accordance with Item 5.3 of Annex A, Requirement	Firm Scanning Dopplar Lidar	\$ _____
	Optional Scanning Dopplar Lidar	\$ _____

EVALUATED PRICE (Section 1 + Section 2 + Section 3) \$ _____

ANNEX C

INSURANCE REQUIREMENTS

1. Commercial General Liability Insurance

1. The Contractor must obtain Commercial General Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence and in the annual aggregate.
2. The Commercial General Liability policy must include the following:
 - a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, as represented by Public Works and Government Services Canada.
 - b. Bodily Injury and Property Damage to third parties arising out of the operations of the Contractor.
 - c. Products and Completed Operations: Coverage for bodily injury or property damage arising out of goods or products manufactured, sold, handled, or distributed by the Contractor and/or arising out of operations that have been completed by the Contractor.
 - d. Personal Injury: While not limited to, the coverage must include Violation of Privacy, Libel and Slander, False Arrest, Detention or Imprisonment and Defamation of Character.
 - e. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - f. Blanket Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - g. Employees and, if applicable, Volunteers must be included as Additional Insured.
 - h. Employers' Liability (or confirmation that all employees are covered by Worker's compensation (WSIB) or similar program)
 - i. Broad Form Property Damage including Completed Operations: Expands the Property Damage coverage to include certain losses that would otherwise be excluded by the standard care, custody or control exclusion found in a standard policy.
 - j. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - k. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
 - l. Owners' or Contractors' Protective Liability: Covers the damages that the Contractor becomes legally obligated to pay arising out of the operations of a subcontractor.
 - m. Non-Owned Automobile Liability - Coverage for suits against the Contractor resulting from the use of hired or non-owned vehicles.
 - r. Litigation Rights: Pursuant to subsection 5(d) of the [Department of Justice Act](#), S.C. 1993, c. J-2, s.1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an

acknowledgement of receipt.

For the province of Quebec, send to:

Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,
Civil Litigation Section,
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

2. Aviation Liability Insurance

1. The Contractor must obtain Aviation Liability Insurance for Bodily Injury (including passenger Bodily Injury) and Property Damage, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$5,000,000 per accident or occurrence and in the annual aggregate.
2. The Aviation Liability policy must include the following:
 - a. Additional Insured: Canada is added as an additional insured, but only with respect to liability arising out of the Contractor's performance of the Contract. The interest of Canada should read as follows: Canada, represented by Public Works and Government Services Canada.
 - b. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of policy cancellation.
 - c. Cross Liability/Separation of Insureds: Without increasing the limit of liability, the policy must protect all insured parties to the full extent of coverage provided. Further, the policy must apply to each Insured in the same manner and to the same extent as if a separate policy had been issued to each.
 - d. Contractual Liability: The policy must, on a blanket basis or by specific reference to the Contract, extend to assumed liabilities with respect to contractual provisions.
 - e. Employees and, where applicable, Volunteers must be included as Additional Insured.
 - f. Aviation Passenger Liability and inclusive Medical Payments: If sub-limits are applicable to Contractor's policy conforming to international carriage agreements or otherwise, such sub-limits must in any event be, not less than, \$300,000 per person. The per accident limit should be no less than \$300,000 multiplied by the number of passengers.

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- g. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
 - h. Employers Liability (unless we have confirmation that all employees are covered by Worker's compensation WSIB or similar program)
 - i. Products and Completed Operations: To cover liability arising from the sale and service of aviation products, assembly and repair activities, in connection with the Work performed by or on behalf of the Contractor.
 - j. Litigation Rights: Pursuant to subsection 5(d) of the [Department of Justice Act](#), S.C. 1993, c. J-2, s. 1, if a suit is instituted for or against Canada which the Insurer would, but for this clause, have the right to pursue or defend on behalf of Canada as an Additional Named Insured under the insurance policy, the Insurer must promptly contact the Attorney General of Canada to agree on the legal strategies by sending a letter, by registered mail or by courier, with an acknowledgement of receipt.

For the province of Quebec, send to:

Director Business Law Directorate,
Quebec Regional Office (Ottawa),
Department of Justice,
284 Wellington Street, Room SAT-6042,
Ottawa, Ontario, K1A 0H8

For other provinces and territories, send to:

Senior General Counsel,
Civil Litigation Section,
Department of Justice
234 Wellington Street, East Tower
Ottawa, Ontario K1A 0H8

A copy of the letter must be sent to the Contracting Authority. Canada reserves the right to co-defend any action brought against Canada. All expenses incurred by Canada to co-defend such actions will be at Canada's expense. If Canada decides to co-defend any action brought against it, and Canada does not agree to a proposed settlement agreed to by the Contractor's insurer and the plaintiff(s) that would result in the settlement or dismissal of the action against Canada, then Canada will be responsible to the Contractor's insurer for any difference between the proposed settlement amount and the amount finally awarded or paid to the plaintiffs (inclusive of costs and interest) on behalf of Canada.

3. Errors and Omissions Liability Insurance

- 1. The Contractor must obtain Errors and Omissions Liability (a.k.a. Professional Liability) insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature but for not less than \$1,000,000 per loss and in the annual aggregate, inclusive of defence costs.
- 2. If the policy is written on a claims-made basis, coverage must be in place for a period of at least 12 months after the completion or termination of the Contract.
- 3. The following endorsement must be included:

Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

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4. Automobile Liability Insurance

1. The Contractor must obtain Automobile Liability Insurance, and maintain it in force throughout the duration of the Contract, in an amount usual for a contract of this nature, but for not less than \$2,000,000 per accident or occurrence.
2. The policy must include the following:
 - a. Third Party Liability - \$2,000,000 Minimum Limit per Accident or Occurrence
 - b. Accident Benefits - all jurisdictional statutes
 - c. Uninsured Motorist Protection
 - d. Notice of Cancellation: The Insurer will endeavour to provide the Contracting Authority thirty (30) days written notice of cancellation.

ANNEX D

EVALUATION

1. Mandatory Technical Criteria

At bid closing time, the Bidder must:

- Comply with the following Mandatory Requirements; and
- Provide the documentation which may include but is not limited to discussion points, equipment specifications, charts and diagrams to support compliance.

Proposals will be evaluated first on the basis of the mandatory requirements. Failure on the part of the bidder to meet one (1) or more of the mandatory requirements will result in the proposal being deemed non-compliant and ineligible for further consideration or evaluation.

The bidder should indicate the page number and section for each criteria in their proposal.

1.1 General Requirements

ITEM #	DESCRIPTION	IDENTIFY WHERE THE SUPPORTING DOCUMENTATION IS LOCATED IN THE PACKAGE (PAGE(S) NUMBERS)
1.1.1	The Bidder must submit by the date and time of bid closing, a signed letter from an authorized representative of the company, stating that the company has been in business for a minimum of 5 years from the date of bid closing, selling and supporting weather Scanning Doppler Lidars.	PAGE(S) AND/OR SECTION NUMBER: _____
1.1.2	Operational Maturity The bidder must demonstrate that the proposed system design must have successfully been deployed in the field for at least two years, from the time of bid closing.	PAGE(S) AND/OR SECTION NUMBER: _____

1.2 Scanning Dopplar Lidar Specifications

ITEM #	ITEM	SPECIFICATION	IDENTIFY WHERE THE SUPPORTING DOCUMENTATION IS LOCATED IN THE PACKAGE (PAGE(S) NUMBERS)
1.2.1 GENERAL			
1.2.1.1	Remote Operations	Remote operator must be able to start, stop lidar, configure scanning, display system and hardware parameters and data collection remotely (via internet connection)	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.1.2	Remote Display	Remote operator must be able to view the	_____

	Functionality	data as a time-height display.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.1.3	System Maintenance	Operator must be able to perform basic system maintenance (check disk usage, download data, delete and edit files) either remotely or locally.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.1.4	Manned Operations	Operator must be able to start, stop lidar, configure scanning, display system and hardware parameters and data collection at the lidar site.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.1.5	In-situ Display Functionality	Operator must be able to view basic products at the lidar site.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.2 HARDWARE			
1.2.2.1	Environment	The SDL hardware must be: i) Weather proofed (system design must be such that electronics and sensors will be protected in precipitating, freezing rain and strong wind conditions); ii) Temperature stabilized; iii) Include a minimum -25°C to maximum 40°C enclosure or better; iv) Humidity minimum 10% to maximum 100% or better.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.2.2	Weight	Must be less than 3000 kilograms	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.2.3	Dimensions including enclosure	Must be less than 2.0 metres x 3.0 metres x 4.0 metres or smaller	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.2.4	Power requirements	Must be 110-240VAC 50-60Hz (with DC converter supplied if required) with less than 60A service	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.3 TRANSMITTER			
1.2.3.1	Eye safety	Must be eye safe. Class 1M (IEC/EN 60825-1 compliant)	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.3.2	Laser wavelength	Must be between 1.4 to 2.2 micrometre (µm) (maximum)	PAGE(S) AND/OR SECTION NUMBER: _____

1.2.3.3	Laser pulse energy	Must be equal to or greater than 2 µJ (micro joule).	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.4 SCANNER OPERATION			
1.2.4.1	Azimuth range	Must have a range of 0 to 360 degrees	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.4.2	Elevation range	Must have an elevation range of -2° to 92°.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.4.3	Pointing accuracy	Pointing accuracy must be 0.1°	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.4.4	Scanning modes	Must have the following scan modes: <ol style="list-style-type: none"> 1. Stare (or line of sight, constant in azimuth and elevation); 2. Plan Position Indicator (PPI, constant in elevation, scanning in azimuth); 3. Wind Profiling (scan in a sequence of fixed azimuths and elevations; typically but not limited to east-west, north-south and vertical beams); 4. Volume Scanning (sequences of PPI at different elevation angles); 5. Range Height Indicator (constant azimuth and scanning in elevation). 	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.5 PERFORMANCE			
1.2.5.1	Data Acquisition Range	Maximum range of the data acquisition must be a minimum of 4 kilometres (km).	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.5.2	Radial wind velocity range	Must be a minimum of 15 metres per second (m/s).	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.5.3	Wind velocity accuracy	Must be equal to less than 0.5 m/s.	PAGE(S) AND/OR SECTION NUMBER: _____

1.2.6 LIDAR CONTROL /CONFIGURATION /PRODUCTS			
1.2.6.1	Operating system	Must be Linux or Windows	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.6.2	Remote control/data transfer	Must provide at least one Ethernet / LAN port. connection	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.6.3	Data format	Must be fully documented.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.6.4	Data Storage	Must be able to store 5 days of lidar data and products.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.6.5	Output	The Lidar data file output must include the following: 1. Scanner identification 2. Data acquisition time; 3. Beam position (azimuth and elevation); 4. Range resolution information 5. Data moments: - Backscatter Intensity; - Radial wind speed.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.6.6	Lidar Control	Graphical interface for lidar control must include : 1. Instrument scan control; 2. Scan configuration; 3. Data acquisition settings (range resolution, maximum range, number of samples, etc); 4. Display of diagnostics and alerts.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.6.7	Software	Must include software and license for off-line user processing.	PAGE(S) AND/OR SECTION NUMBER: _____
1.2.6.8	Platform	Must be a commercial off the shelf PC for remote control software and data display	PAGE(S) AND/OR

			SECTION NUMBER: _____
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2.0 Point Rated Technical Criteria

Bidders must achieve a minimum of 250 points out of 1,137 to be considered responsive.

ITEM #	ITEM	ASSET CRITERIA	POINTS	IDENTIFY WHERE THE SUPPORTING DOCUMENTATION IS LOCATED IN THE PACKAGE (PAGE(S) NUMBERS)
2.1 SCANNER OPERATION				
2.1.1	Elevation range	Should have an elevation range of -2° to 182°	10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.1.2	Pointing accuracy	Pointing accuracy should be better than 0.1°	0.02° = 1 point 0.03° = 2 points 0.04° = 3 points 0.05° = 4 points 0.06° = 5 points 0.07° = 7 points 0.08° = 8 points 0.09° = 9 points 0.10° = 10 points Maximum of 10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.1.3	Rotation speed	Should be able to rotate and acquire data at greater than 0.5 degrees per second.	0.5 degrees per second to 10.0 degrees per second = 50 points Greater than 10.0 degrees per second to 20.0 degrees per second = 100 points Greater than 20.0 degrees per second to 30.0 degrees per second = 150 points Greater than 30.0 degrees per second to 40.0 degrees per second = 200 points	PAGE(S) AND/OR SECTION NUMBER: _____

			Greater than 40.0 degrees per second to 50.0 degrees per second = 250 points Maximum 250 points	
2.1.4	Wind	Should withstand sustained winds of 35 m/s and gusts of 65 m/s.	20 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.1.5	Freezing Rain	Should be able to operate with light freezing drizzle or rain (less than or equal to 2 millimeters per hour	25 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.1.6	Temperature	Should be able to operate in temperatures down to -50°C	Less than -25°C to -30°C = 5 points Less than -30°C to -35°C = 10 points Less than -35°C to -40°C = 15 points Less than -40°C to -45°C = 20 points Less than -45°C to -50°C = 25 points Maximum 25 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.1.7	Uninterruptible Power Supply	Should have a Universal Power Supply (UPS) to condition the input power and be sufficient to shut the system down.	20 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.2 PERFORMANCE				
2.2.1	Data Acquisition Range	Should be greater than 4 km	Greater than 4 km to 10 km = 12 points Greater than 10 km to 20 km = 25 points Greater than 20 km to 40 km = 50 points Greater than 40 km to 80 km = 100 points Maximum 100 points	PAGE(S) AND/OR SECTION NUMBER: _____

2.2.2	Physical Range resolution	Should be user configurable and less than 100 meters	<p>Less than 100 m to 75 m = 25 points</p> <p>Less than 75 m to 50 m = 50 points</p> <p>Less than 50 m to 25 m = 75 points</p> <p>Less than 25 m to 10 m = 100 points</p> <p>Maximum 100 points</p>	PAGE(S) AND/OR SECTION NUMBER: _____
2.2.3	Radial wind velocity range	Should be greater than 15 (m/s)	<p>20 m/s = 12 points</p> <p>25 m/s = 25 points</p> <p>30 m/s = 37 points</p> <p>35 m/s = 50 points</p> <p>40 m/s = 62 points</p> <p>Maximum 62 points.</p>	PAGE(S) AND/OR SECTION NUMBER: _____
2.2.4	Wind velocity accuracy	Should be less than 0.5 m/s	<p>0.4 m/s = 5 points</p> <p>0.3 m/s = 10 points</p> <p>0.2 m/s = 15 points</p> <p>0.1 m/s = 20 points</p> <p>Maximum 20 points</p>	PAGE(S) AND/OR SECTION NUMBER: _____
2.3 LIDAR CONTROL /CONFIGURATION /PRODUCTS				
2.3.1	Data Storage	Should be able to store more than 5 days of all data and products	<p>Up to 15 days = 5 points</p> <p>Up to 25 days = 10 points</p> <p>Up to 35 days = 15 points</p> <p>Maximum 15 points</p>	PAGE(S) AND/OR SECTION NUMBER: _____
2.3.2	Output	The Lidar data file output should include the Spectrum width	10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.3.3	Output	The Lidar data file output should include the Doppler Spectrum	10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.3.4	Output	The Lidar should record time series (I,Q) data	10 points	PAGE(S) AND/OR SECTION NUMBER: _____

2.3.5	Output	There should be a graphical real-time display of PPI data	10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.3.6	Output	There should be a graphical real-time display of RHI data	10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.3.7	Output	The various data moments should be selectable for the PPI and RHI displays.	10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.3.8	Output	There should be a display of the Doppler Spectrum for a single range bin	10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.3.9	Output	There should be a display of the Doppler Spectrum as a function of height.	10 points	PAGE(S) AND/OR SECTION NUMBER: _____
2.4 TRANSMITTER				
2.4.1	Laser pulse energy	Should be greater than 2µJ (micro joule)	<p>Greater than 2 µJ to 5 µJ = 5 points</p> <p>Greater than 5 µJ to 50 µJ = 10 points</p> <p>Greater than 50 µJ to 100 µJ = 20 points</p> <p>Greater than 100 µJ to 200 µJ = 40 points</p> <p>Greater than 200 µJ to 500 µJ = 100 points</p> <p>Greater than 500 µJ to 1000 µJ = 200 points</p> <p>Greater than 1000 µJ to 1500 µJ = 300 points</p> <p>Greater than 1500</p>	PAGE(S) AND/OR SECTION NUMBER: _____

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			μ J to 2000 μ J = 400 points Maximum 400 points.	
TOTAL POINTS				/1,137

ANNEX E

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ADDITIONAL CERTIFICATIONS

1. Board of Directors

In accordance with Section 1.1, Integrity Provisions – Associated Information, Bidder's are required to provide a list of their Board of Directors before contract award. Bidder's are requested to provide this information in their bid.

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

Director Name - _____

2. Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Suppliers are required to have a Procurement Business Number (PBN) before contract award.

Procurement Business Number - _____

Suppliers may register for a PBN online at [Supplier Registration Information](#). For non-Internet registration, suppliers may contact the InfoLine at 1-800-811-1148 to obtain the telephone number of the nearest Supplier Registration Agent.