



RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving Public Works and Government
Services Canada/Réception des
soumissions\Travaux publics et Services
gouvernementaux Canada
See herein for bid submission
instructions/
Voir la présente pour les
instructions sur la présentation
d'une soumission
NA
Ontario

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

Address all inquiries to
Tammy.weaver@pwgsc-tpsgc.gc.ca

Title - Sujet UV Corn Processing Unit	
Solicitation No. - N° de l'invitation 01E91-210422/B	Date 2021-03-11
Client Reference No. - N° de référence du client 01E91-21-0422	
GETS Reference No. - N° de référence de SEAG PW-\$KIN-508-8364	
File No. - N° de dossier KIN-0-54127 (508)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2021-04-14 Heure Avancée de l'Est HAE	
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: Weaver, Tammy	Buyer Id - Id de l'acheteur kin508
Telephone No. - N° de téléphone (613) 484-1809 ()	FAX No. - N° de FAX (613) 545-8067
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: AAFC Guelph Research and Development Centre 95 Stone Rd W Guelph, ON N1H 8J7 Attn: T Koutchma	

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

Public Works and Government Services / Travaux publics et
services gouvernementaux
Kingston Procurement
Des Acquisitions Kingston
86 Clarence Street, 2nd floor
Kingston
Ontario
K7L 1X3

Delivery Required - Livraison exigée See Herein – Voir ci-inclus	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

TABLE OF CONTENTS

PART 1 - GENERAL INFORMATION	2
1.1 REISSUE OF BID SOLICITATION	2
1.2 REQUIREMENT	2
1.3 DEBRIEFINGS	2
1.4 EPOST CONNECT SERVICE	2
PART 2 - BIDDER INSTRUCTIONS	2
2.1 STANDARD INSTRUCTIONS, CLAUSES AND CONDITIONS	2
2.2 SUBMISSION OF BIDS.....	2
2.3 ENQUIRIES - BID SOLICITATION.....	3
2.4 APPLICABLE LAWS.....	3
2.5 BID CHALLENGE AND RECOURSE MECHANISMS.....	3
PART 3 - BID PREPARATION INSTRUCTIONS.....	4
3.1 BID PREPARATION INSTRUCTIONS	4
PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION	4
4.1 EVALUATION PROCEDURES.....	4
4.2 BASIS OF SELECTION - MANDATORY TECHNICAL CRITERIA.....	7
PART 5 - CERTIFICATIONS AND ADDITIONAL INFORMATION	7
5.1 CERTIFICATIONS REQUIRED WITH THE BID	7
5.2 CERTIFICATIONS PRECEDENT TO CONTRACT AWARD AND ADDITIONAL INFORMATION	8
PART 6 - RESULTING CONTRACT CLAUSES	8
6.1 SECURITY REQUIREMENTS	8
6.2 REQUIREMENT	8
6.3 STANDARD CLAUSES AND CONDITIONS.....	8
6.4 TERM OF CONTRACT	9
6.5 AUTHORITIES	9
6.6 PAYMENT	10
6.7 INVOICING INSTRUCTIONS	10
6.8 CERTIFICATIONS AND ADDITIONAL INFORMATION.....	11
6.9 APPLICABLE LAWS.....	11
6.10 PRIORITY OF DOCUMENTS	11
6.11 <i>SACC MANUAL</i> CLAUSES	11
6.12 DISPUTE RESOLUTION.....	11
6.13 SHIPPING INSTRUCTIONS - DELIVERY AT DESTINATION	12
ANNEX "A"	13
REQUIREMENT	13
ANNEX "B"	15
BASIS OF PAYMENT	15
ANNEX "C" TO PART 3 OF THE BID SOLICITATION	16
ELECTRONIC PAYMENT INSTRUMENTS.....	16
ANNEX "D"	17
ADDITIONAL CERTIFICATIONS	17

PART 1 - GENERAL INFORMATION

1.1 Reissue of Bid Solicitation

This bid solicitation cancels and supersedes previous bid solicitation number 01E91-200422/A dated 25 November 2020 with a closing of 11 December 2020 at 2PM (EST). A debriefing or feedback session will be provided upon request to bidders/offerors/suppliers who bid on the previous solicitation.

1.2 Requirement

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

1.3 Debriefings

Bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within 15 working days from receipt of the results of the bid solicitation process. The debriefing may be in writing, by telephone or in person.

1.4 epost Connect service

This bid solicitation allows bidders to use the epost Connect service provided by Canada Post Corporation to transmit their bid electronically. Bidders must refer to Part 2 entitled Bidder Instructions, and Part 3 entitled Bid Preparation Instructions, of the bid solicitation, for further information."

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](#) ([2020-05-28](#)) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

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

Delete: 60 days
Insert: 90 days

2.2 Submission of Bids

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

Bids will not be accepted if emailed directly to this email address. This email address is to be used to open an epost Connect conversation, as detailed in Standard Instructions [2003](#), or to send bids through an epost Connect message if the bidder is using its own licensing agreement for epost Connect.

TPSGC.orrceptiondessomissions-orbidreceiving.PWGSC@tpsgc-pwgsc.gc.ca

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

2.2.1 Improvement of Requirement during Solicitation Period

Should bidders consider that the specifications or Statement of Work contained in the bid solicitation could be improved technically or technologically, bidders are invited to make suggestions, in writing, to the Contracting Authority named in the bid solicitation. Bidders must clearly outline the suggested improvement as well as the reason for the suggestion. Suggestions that do not restrict the level of competition nor favour a particular bidder will be given consideration provided they are submitted to the Contracting Authority at least 15 days before the bid closing date. Canada will have the right to accept or reject any or all suggestions.

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 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 Bid Challenge and Recourse Mechanisms

- (a) Several mechanisms are available to potential suppliers to challenge aspects of the procurement process up to and including contract award.
- (b) Canada encourages suppliers to first bring their concerns to the attention of the Contracting Authority. Canada's [Buy and Sell](#) website, under the heading "[Bid Challenge and Recourse Mechanisms](#)" contains information on potential complaint bodies such as:
 - Office of the Procurement Ombudsman (OPO)
 - Canadian International Trade Tribunal (CITT)
- (c) Suppliers should note that there are **strict deadlines** for filing complaints, and the time periods vary depending on the complaint body in question. Suppliers should therefore act quickly when they want to challenge any aspect of the procurement process.

PART 3 - BID PREPARATION INSTRUCTIONS

3.1 Bid Preparation Instructions

- Bidder must submit its bid electronically, Canada requests that the Bidder submits its bid in accordance with section 08 of the 2003 standard instructions. The epost Connect system has a limit of 1GB per single message posted and a limit of 20GB per conversation.

The bid must be gathered per section and separated as follows:

Section I: Technical Bid
Section II: Financial Bid
Section III: Certifications

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

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

Section I: Technical Bid

In their technical bid, Bidders should explain and demonstrate how they propose to meet the requirements and how they will carry out the Work.

Section II: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment.

3.1.1 Electronic Payment of Invoices – Bid

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

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

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

3.1.2 Exchange Rate Fluctuation

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

Section III: Certifications

Bidders must submit the certifications and additional information required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

4.1 Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical and financial evaluation criteria.

- (b) An evaluation team composed of representatives of Canada will evaluate the bids.
- (c) The evaluation team will determine first if there are two or more bids with a valid Canadian Content certification. In that event, the evaluation process will be limited to the bids with the certification; otherwise, all bids will be evaluated. If some of the bids with a valid certification are declared non-responsive, or are withdrawn, and less than two responsive bids with a valid certification remain, the evaluation will continue among those bids with a valid certification. If all bids with a valid certification are subsequently declared non-responsive, or are withdrawn, then all the other bids received will be evaluated.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

Bidder must meet the technical specification located below. Complete the grid indicating where each mandatory can be found in the bid submission.

Item	Description	Page # of Proposal to find information
1	UV corn processing unit must be pilot scale.	
2	UV corn processing unit must consist of three structurally compatible components: 2.2.1 Conveyor-style platform which can bring corn kernels into motion such that three dimensional light exposure is achieved during UV treatment; 2.2.2 Low pressure mercury lamp unit emitting at 253.7 nm that is mountable to the conveyor-style platform; 2.2.3 Medium pressure mercury lamp unit emitting in the range of 200 – 600 nm which is mountable to the conveyor-style platform.	
3	The surface of the conveyor must have minimum dimensions of 7' x 38" (width x length).	
4	Appropriate shielding of UV lamps must be provided to ensure operators are not exposed to UV light during operation.	
5	The entire assembled unit must be no larger than 7' x 10' x 6' (width x length x height).	
6	Low pressure mercury lamp unit, situated at a height of 4' or greater above the conveyor surface, must equally illuminate (minimum 95% deviation in irradiance; mW cm ⁻²) a minimum	

	surface area of 7" x 24" (width x length) with a minimum irradiance of 30 mW cm ⁻² when measured on a stationary conveyor.	
7	Medium pressure mercury lamp unit, situated at a height of 4" or greater above the conveyor surface, must have at least 6" (or 150 mm) arch length and equally illuminate (minimum 95% deviation in irradiance; mW cm ⁻²) a minimum surface area of 7" x 8" (width x length) with a minimum irradiance of 10 mW cm ⁻² in the UV-C range when measured on a stationary conveyor.	
8	A cooling or heat dissipation mechanism must be present in order to prevent excessive heat accumulation on the conveyor surface and corn kernels during treatment	
9	The unit must allow for the user to interchange between the use of the low pressure mercury unit and the medium pressure mercury unit when illuminating the conveyor surface and treating corn kernels.	
10	Both the low and medium pressure lamp units must be fully removable by the operator such that the conveyor unit can be operated independently.	
11	The unit must allow user mediated control in terms of UV light delivery or fluence per single pass over the conveyor. This could include the option of adjustable conveyor speed or the option of adjustable irradiance emitting from the low pressure mercury unit and the medium pressure mercury unit at the conveyor surface. The latter can be achieved by adjustable lamp power output, lamp height or symmetric lamp on/off capability.	

4.1.2 Financial Evaluation

1. Only companies meeting the mandatory technical evaluation will be considered for the financial evaluation.
2. Evaluation will be the unit price x the Qty for the extended price. The sum of the extended price will be the evaluated price. Option purchase will not be included in the evaluation.

-
- 3. SACC Manual Clause [A0220T](#) (2014-06-26), Evaluation of Price-Bid**
The price of the bid will be evaluated in Canadian dollars, Applicable Taxes excluded, FOB destination, Canadian customs duties and excise taxes included.

4.2 Basis of Selection - Mandatory Technical Criteria

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

PART 5 – CERTIFICATIONS AND ADDITIONAL INFORMATION

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

The certifications provided by Bidders to Canada are subject to verification by Canada at all times. Unless specified otherwise, Canada will declare a bid non-responsive, or will declare a contractor in default if any certification made by the Bidder is found to be untrue whether made knowingly or unknowingly, during the bid evaluation period or during the contract period.

The Contracting Authority will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply and to cooperate with any request or requirement imposed by the Contracting Authority will render the bid non-responsive or constitute a default under the Contract.

5.1 Certifications Required with the Bid

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

5.1.1 Integrity Provisions - Declaration of Convicted Offences

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

5.1.2 Canadian Content Certification

This procurement is conditionally limited to Canadian goods and Canadian services.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids with a certification that the goods and services offered are Canadian goods and Canadian services, as defined in clause [A3050T](#), may be considered.

Failure to provide this certification completed with the bid will result in the goods and services offered being treated as non-Canadian goods and non-Canadian services.

The Bidder certifies that:

() a minimum of 80 percent of the total bid price consist of Canadian goods and Canadian services as defined in paragraph 5 of clause [A3050T](#).

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

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

5.2 Certifications Precedent to Contract Award and Additional Information

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

5.2.1 Integrity Provisions – Required Documentation

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

5.2.2 Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the Federal Contractors Program (FCP) for employment equity "FCP Limited Eligibility to Bid" list available at the bottom of the page of the [Employment and Social Development Canada \(ESDC\) - Labour's](https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#) website (<https://www.canada.ca/en/employment-social-development/programs/employment-equity/federal-contractor-program.html#>).

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

PART 6 - RESULTING CONTRACT CLAUSES

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

6.1 Security Requirements

6.1.1 There is no security requirement applicable to the 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](#) (2020-05-28), General Conditions - Goods (Medium Complexity), apply to and form part of the Contract.

Solicitation No. - N° de l'invitation
01E91-200422/B
Client Ref. No. - N° de réf. du client
01E91-20-0422

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-0-54127

Buyer ID - Id de l'acheteur
KIN508
CCC No./N° CCC - FMS No./N° VME

6.3.2 Supplemental General Conditions

4001 (2015-04-01) Hardware Purchase, Lease and Maintenance, apply to and form part of the Contract.
Part IV and V do not apply

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

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract to 6 Months inclusive

6.4.2 Delivery Date

All the deliverables must be received on or before 31 March 2022.

6.4.3 Delivery Points

Delivery of the requirement will be made to delivery point(s) specified at Annex "A" of the Contract.

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Tammy Weaver
Supply Specialist
Public Works and Government Services Canada
Acquisitions Branch
86 Clarence St, 2nd Floor
Kingston, Ontario
K7L 1X3

Telephone: 613-484-1809
Facsimile: 613-545-8067
E-mail: Tammy.Weaver@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.

6.5.2 Project Authority (to be completed upon contract award)

The Project Authority for the Contract is:

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

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

Solicitation No. - N° de l'invitation
01E91-200422/B
Client Ref. No. - N° de réf. du client
01E91-20-0422

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-0-54127

Buyer ID - Id de l'acheteur
KIN508
CCC No./N° CCC - FMS No./N° VME

The Project 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

Name: _____

Telephone: ____ _

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 unit price(s), as specified in Annex B 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.

6.6.2 Single Payment

H1000C (2008-05-12) Single Payment

6.6.3 Electronic Payment of Invoices – Contract

The Contractor accepts to be paid using any of the following Electronic Payment Instrument(s):

- a. Visa Acquisition Card;
- b. MasterCard Acquisition Card;
- c. Direct Deposit (Domestic and International);
- d. Electronic Data Interchange (EDI);
- e. Wire Transfer (International Only);
- f. Large Value Transfer System (LVTS) (Over \$25M)

6.7 Invoicing Instructions

1. The Contractor must submit invoices in accordance with the section entitled "Invoice Submission" of the general conditions. Invoices cannot be submitted until all work identified in the invoice is completed.
2. Invoices must be distributed as follows:
 - a. The original and one (1) copy must be forwarded to the 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.
- c. one (1) copy must be forwarded to the consignee.

6.8 Certifications and Additional Information

6.8.1 Compliance

Unless specified otherwise, the continuous compliance with the certifications provided by the Contractor in its bid or precedent to contract award, and the ongoing cooperation in providing additional information are conditions of the Contract and failure to comply will constitute the Contractor in default. Certifications are subject to verification by Canada during the entire period of the Contract.

6.8.2 SACC Manual Clauses

[A3060C \(2008-05-12\) Canadian Content Certification](#)

6.9 Applicable Laws

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

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 (2015-04-01) Hardware Purchase, Lease and Maintenance and 4003 (2010-08-16) Licensed Software;
- (c) the general conditions [2010A \(2020-05-28\)](#), General Conditions - Goods (Medium Complexity);
- (d) Annex A, Requirement;
- (e) Annex B, Basis of Payment;
- (f) the Contractor's bid dated _____.

6.11 SACC Manual Clauses

[B1501C \(2018-06-21\) Electrical Equipment](#)

6.12 Dispute Resolution

- (a) The parties agree to maintain open and honest communication about the Work throughout and after the performance of the contract.
- (b) The parties agree to consult and co-operate with each other in the furtherance of the contract and promptly notify the other party or parties and attempt to resolve problems or differences that may arise.
- (c) If the parties cannot resolve a dispute through consultation and cooperation, the parties agree to consult a neutral third party offering alternative dispute resolution services to attempt to address the dispute.

Solicitation No. - N° de l'invitation
01E91-200422/B
Client Ref. No. - N° de réf. du client
01E91-20-0422

Amd. No. - N° de la modif.
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KIN-0-54127

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

- (d) Options of alternative dispute resolution services can be found on Canada's Buy and Sell website under the heading "[Dispute Resolution](#)".

6.13 Shipping Instructions - Delivery at Destination

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

Delivered Duty Paid (DDP) AAFC, Guelph Research and Development Centre, 95 Stone Road W,
Guelph, Ontario N1H 8J7 Incoterms 2000 for shipments from a commercial contractor.

ANNEX "A"

REQUIREMENT

UV CONVEYOR SYSTEM FOR TREATMENT OF CORN KERNELS

1. Description

Agriculture and Agri-Food Canada (AAFC), Guelph Research and Development Centre (GRDC) require the supply, delivery, installation, training and warranty of one (1) new pilot-scale ultraviolet (UV) corn processing unit. This unit will be used to validate the efficacy of fungal and mycotoxin decontamination on the surface of corn kernels treated in dynamic motion on a conveyor-style system using low pressure and medium pressure UV light sources.

2. Minimum Mandatory Technical Specifications

- 2.1 UV corn processing unit must be pilot scale.
- 2.2 UV corn processing unit must consist of three structurally compatible components:
 - 2.2.1 Conveyor-style platform which can bring corn kernels into motion such that three dimensional light exposure is achieved during UV treatment;
 - 2.2.2 Low pressure mercury lamp unit emitting at 253.7 nm that is mountable to the conveyor-style platform;
 - 2.2.3 Medium pressure mercury lamp unit emitting in the range of 200 – 600 nm which is mountable to the conveyor-style platform.
- 2.3 The surface of the conveyor must have minimum dimensions of 7" x 38" (width x length).
- 2.4 Appropriate shielding of UV lamps must be provided to ensure operators are not exposed to UV light during operation.
- 2.5 The entire assembled unit must be no larger than 7' x 10' x 6' (width x length x height) as the unit will be placed in a bio-bubble in the GRDC pilot plant. This is the maximal size that can fit in the bio-bubble.
- 2.6 Low pressure mercury lamp unit, situated at a height of 4" or greater above the conveyor surface, must equally illuminate (minimum 95% deviation in irradiance; mW cm^{-2}) a minimum surface area of 7" x 24" (width x length) with a minimum irradiance of 30 mW cm^{-2} when measured on a stationary conveyor.
- 2.7 Medium pressure mercury lamp unit, situated at a height of 4" or greater above the conveyor surface, must have at least 6" (or 150 mm) arch length and equally illuminate (minimum 95% deviation in irradiance; mW cm^{-2}) a minimum surface area of 7" x 8" (width x length) with a minimum irradiance of 10 mW cm^{-2} in the UV-C range when measured on a stationary conveyor.
- 2.8 A cooling or heat dissipation mechanism must be present in order to prevent excessive heat accumulation on the conveyor surface and corn kernels during treatment.
- 2.9 The unit must allow for the user to interchange between the use of the low pressure mercury unit and the medium pressure mercury unit when illuminating the conveyor surface and treating corn kernels.
- 2.10 Both the low and medium pressure lamp units must be fully removable by the operator such that the conveyor unit can be operated independently.
- 2.11 The unit must allow user mediated control in terms of UV light delivery or fluence per single pass over the conveyor. This could include the option of adjustable conveyor speed or the option of adjustable irradiance emitting from the low pressure mercury unit and the medium pressure mercury unit at the conveyor surface. The latter can be achieved by adjustable lamp power output, lamp height or symmetric lamp on/off capability.

3. Delivery, Installation, Training

- 3.1 The Contractor must supply and deliver a fully functional pilot-scale UV Corn Processing Unit, including all hardware, software and peripherals, to Agriculture and Agri-Food Canada, Guelph Research and Development Centre, 95 Stone Rd W, Guelph, Ontario, N1H 8J7.
- 3.2 The Contractor must provide installation including labour and travel.
- 3.3 The Contractor must provide operator training on the use and maintenance of the UV Corn Processing Unit. Training can be provided on-site or virtually.
- 3.4 The Contractor must provide Standard Operating Procedures (SOPs).

4. Optional Hardware and Service Warranty

- 4.1 The Contractor must provide an optional second year Hardware and Services Warranty for the UV Corn Processing Unit for a period of one year beginning at the expiration of the standard warranty. The Optional Hardware and Service Warranty must include all parts, labour and travel associated with the work.

Solicitation No. - N° de l'invitation
01E91-200422/B
Client Ref. No. - N° de réf. du client
01E91-20-0422

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-0-54127

Buyer ID - Id de l'acheteur
KIN508
CCC No./N° CCC - FMS No./N° VME

ANNEX "B"

BASIS OF PAYMENT

Item #	Description	Qty	Unit Of Issue	Unit Price DDP	Extended Price DDP
1	To provide and install new pilot-scale ultraviolet (UV) corn processing unit as outlined in Annex "A"	1	Ea	\$ _____	\$ _____
2	Training On-site	1	Lot	\$ _____	\$ _____
	Or Training Virtually	1	Lot	\$ _____	\$ _____
3	Option 1 year Extended Warranty as outlined in Annex "A"	1	Year	\$ _____	\$ _____

Solicitation No. - N° de l'invitation
01E91-200422/B
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ANNEX “C” to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

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

- VISA Acquisition Card;
- MasterCard Acquisition Card;
- Direct Deposit (Domestic and International);
- Electronic Data Interchange (EDI);
- Wire Transfer (International Only);
- Large Value Transfer System (LVTS) (Over \$25M)

Solicitation No. - N° de l'invitation
01E91-200422/B
Client Ref. No. - N° de réf. du client
01E91-20-0422

Amd. No. - N° de la modif.
File No. - N° du dossier
KIN-0-54127

Buyer ID - Id de l'acheteur
KIN508
CCC No./N° CCC - FMS No./N° VME

Annex "D"

ADDITIONAL CERTIFICATIONS

ADDITIONAL CERTIFICATIONS

1. Board of Directors

In accordance with Section 1, Integrity Provisions – Bidder, Bidders are required to provide a list of their Board of Directors before contract award. Bidders are requested to provide this information in their bid.

Director Name - _____

2. Procurement Business Number (PBN)

In accordance with Section 2, Procurement Business Number, of the Standard Instructions, Offerors 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.