



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

Alberta

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

Vendor/Firm Name and Address

Raison sociale et adresse du

fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Public Works and Government Services Canada/Travaux
publics et Services gouvernementaux Canada

Harry Hays Building (HHB)

Room 759, 220-4th Avenue SE

Calgary

Alberta

T2G 4X3

Title - Sujet Broad Spectrum Linear LED Lights Broad Spectrum Linear LED Lights	
Solicitation No. - N° de l'invitation 01586-210004/A	Date 2021-05-21
Client Reference No. - N° de référence du client 01586-210004	
GETS Reference No. - N° de référence de SEAG PW-\$CAL-143-7205	
File No. - N° de dossier CAL-0-43140 (143)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Mountain Daylight Saving Time MDT on - le 2021-06-09 Heure Avancée des Rocheuses HAR	
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: Kunz, Roxanne	Buyer Id - Id de l'acheteur cal143
Telephone No. - N° de téléphone (403) 463-0037 ()	FAX No. - N° de FAX (418) 566-6167
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF AGRICULTURE AND AGRI-FOOD CANADA 5403 – 1 Avenue South Lethbridge, AB T1J 4B1	

Instructions: See Herein

Instructions: Voir aux présentes

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

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PART 1 - GENERAL INFORMATION

1.1 Requirement

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

1.2 Debriefings

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

1.3 Canadian Content

The requirement is subject to a preference for Canadian goods.

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:

PWGSC Western Region Bid Receiving Unit

Suppliers are strongly encouraged to submit bids electronically using the Canada Post epost Connect application for the subject bid solicitation. The Bidder must send an email requesting to open an epost Connect conversation to the following address:

roreceptionSoumissions.wrbidreceiving@tpsgc-pwgsc.gc.ca

Note: 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.

It is the Bidder's responsibility to ensure the request for opening an epost Connect conversation is sent to the email address above at least six days before the solicitation closing date.

Faxed bids will be accepted at 1-418-566-6167.

Hard copy (submitted in person or via mail/courier) bids will not be accepted for the subject bid solicitation.

2.3 Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than 5 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 Alberta.

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

The Bidder is strongly encouraged to submit its bid electronically 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

Faxed bids will be accepted at 1-418-566-6167.

Hard copy (submitted in person or via mail/courier) bids will not be accepted for the subject bid solicitation.

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

3.1.3 SACC Manual Clauses

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 if there are two (2) or more bids with a valid Canadian content certification with the bids coming from two or more Bidders that are not affiliated within the meaning used in the *Competition Act*, R.S.C., 1985, c. C-34. In that event, only those bids with a valid certification will be eligible to be awarded a contract; otherwise, all bids will be eligible. If at any point in the evaluation process it is found, whether by determination of invalidity of certifications, determination that bids are non-responsive or withdrawal of bids by Bidders, that there are no longer two (2) or more responsive bids with a valid certification, then all responsive bids will be eligible to be awarded a contract. Canada may conduct the validation of Canadian content certifications at any time in the evaluation process including doing so concurrently with other steps.

4.1.1 Technical Evaluation

4.1.1.1 Mandatory Technical Criteria

- a) Compliance with meeting all of the mandatory specification requirements, as identified under Annex "A", Requirement.

4.1.2 Financial Evaluation

SACC Manual Clause [A0222T](#) (2014-06-26), Evaluation of Price-Canadian/Foreign Bidders

4.2 Basis of Selection

4.2.1 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 total evaluated price is the total of Table 1 plus Table 2 in Annex B. 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 Additional Certifications Required with the Bid

5.1.2.1 Canadian Content Certification

This procurement is conditionally limited to Canadian goods.

Subject to the evaluation procedures contained in the bid solicitation, bidders acknowledge that only bids for items with a certification that the item(s) offered are Canadian goods, as defined in clause **A3050T**, may be considered.

Failure to provide this certification completed with the bid will result in the item(s) offered being treated as non-Canadian goods.

Bidders must clearly identify beside each item listed in the bid solicitation document which items meet the definition of Canadian good and complete the following certification.

The Bidder certifies that:

() the item(s) offered and identified as Canadian goods are Canadian goods as defined in paragraph 1 of clause **A3050T**.

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 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>) 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.

6.4 Term of Contract

6.4.1 Period of the Contract

The period of the Contract is from date of Contract award to October 31, 2021 inclusive.

6.4.2 Delivery Date

All the deliverables must be received on or before August 31, 2021.

6.4.3 Optional Goods and/or Services

The Contractor grants to Canada the irrevocable option to acquire the goods, services or both described at Annex A 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 within 30 calendar days after contract award by sending a written notice to the Contractor.

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CAL143
CCC No./N° CCC - FMS No./N° VME

6.4.4 Delivery Points

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

6.5 Authorities

6.5.1 Contracting Authority

The Contracting Authority for the Contract is:

Name: Roxanne Kunz
Title: Procurement Officer
Public Services and Procurement Canada
Acquisitions Branch

Address: Harry Hays Building Room 759
220 4th Ave SE
Calgary, AB T2G 4X3

Telephone: 403-463-0037
Facsimile: 403-292-5786
E-mail address: Roxanne.kunz@pwgsc-tpsgc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

6.5.2 Project Authority (*To be provided at contract award*)

The Project Authority for the Contract is:

Name: _____
Title: _____
Organization: _____
Address: _____
Telephone: _____
Facsimile: _____
E-mail address: _____

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.

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6.5.3 Contractor's Representative *(To be filled out by bidder)*

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: _____

Facsimile: _____

E-mail address: _____

6.6 Payment

6.6.1 Basis of Payment

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price, as specified in Annex B for a cost of \$ _____ *(to be determined 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 Limitation of Price

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

6.6.3 Single Payment

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

6.6.4 SACC Manual Clauses

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

6.6.5 Electronic Payment of Invoices – Contract *(To be determined at contract award)*

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);

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.

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

6.10 Priority of Documents

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

- (a) the Articles of Agreement;
- (b) the general conditions 2010A (2020-05-28), General Conditions - Goods (Medium Complexity);
- (c) Annex A, Requirement;
- (d) Annex B, Basis of Payment;
- (e) the Contractor's bid dated _____ *(To be filled out by bidder)*

6.11 SACC Manual Clauses

B1501C (2018-06-21) Electrical equipment
B7500C (2006-06-16) Excess Goods
G1005C (2016-01-28) Insurance - No Specific Requirement

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CAL-0-43140

Buyer ID - Id de l'acheteur
CAL143
CCC No./N° CCC - FMS No./N° VME

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

ANNEX "A"

REQUIREMENT

Agriculture and Agri-Food Canada has a requirement for the supply of 30 Broad Spectrum Linear LED lights for the Research Greenhouse.

Refer to the Compliance Matrix for the complete performance specifications and instructions that must be satisfied in order for a bid to be deemed responsive.

DELIVERY

Delivery must be received on or before **August 31, 2021**.

Agriculture and Agri-Food Canada
5403 – 1 Avenue South
Lethbridge, AB
T1J 4B1

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS

Instructions to Bidders

1. A complete list of the mandatory evaluation criteria are detailed in the Compliance Matrix below.
2. Bids which fail to meet all of the mandatory evaluation criteria will be declared non-responsive.
3. Bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they meet each mandatory evaluation criteria. Bidder should demonstrate their capability in a thorough, concise and clear manner.
4. 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 or stating, without any substantiating information, that a bidder is compliant will not be sufficient.
5. Substantiating information may include, but is not limited to, specification sheets, technical brochures, photographs or illustrations. If published supporting technical documentation is not available, the Bidder should prepare a written narrative complete with a detailed explanation of how its bid demonstrates technical compliance. All substantiating information should be provided with the bid at solicitation closing date. It is the Bidders responsibility to ensure that the submitted supporting technical documentation provides detail to demonstrate that the proposed product(s) meet the requirements of the evaluation criteria.
6. If the supporting documentation referenced above has not been provided at bid closing, the Contracting Authority will notify the Bidder that they must provide supporting documentation within two (2) business days following notification. Failure to comply with the request of the Contracting Authority within that time period, will deem the bid non-responsive and the bid will be given no further consideration.

7. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present the topics in the order of the evaluation criteria, and include a grid in their proposal, containing the information which demonstrates how the bidder meets each evaluation criteria. Alternatively, and to avoid any duplication, bidders may also refer to the different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.
8. Bidders must address any concerns with the performance specifications in written detail to the Contracting Authority before bid closing as outlined in the Request for Proposal (RFP) document.

COMPLIANCE MATRIX – MINIMUM MANDATORY PERFORMANCE SPECIFICATIONS:

Requirement:		Manufacturer(s) Offered:		Model Number(s) Offered:
Broad spectrum Linear LED lights				

Item #	Performance Specification	Status (M) Mandatory (D) Desirable*	Performance Specification Offered: Bidder <u>should</u> indicate how they meet the performance specification by recording this information in this column	Cross Reference: In this column, Bidders <u>should</u> cross-reference where this performance specification is indicated in their supporting documents
1	AC Input Voltage: AC Input Voltage must operate at 347 volts to meet existing greenhouse power.	M		
2	Power Supply: Must have a separate Power Supply.	M		
3	AC power cable: AC power cable must be a Minimum of 6-FT (1.83 m) long with Pigtail, and rated Maximum of 480 Volts AC.	M		
4	DC Power Cable: Direct Current Power Cable must be a Minimum of 6-FT (1.83 m) long.	M		
5	Spectrum: <u>Bidder Information</u> – The Spectrum requirements will create a sun-like spectrum inside the greenhouse, as the researchers require compact outdoor-like plants within the greenhouse.			
5a.	The spectrum of the modules must be broad (wide) spectrum which is designed for crop science applications	M		

	in a greenhouse setting.			
5b.	The spectrum must be 37-40% in red, between 600-700nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed).	M		
5c.	The spectrum must be 19-24% in the blue, between 400-500nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed).	M		
5d.	The spectrum must be 34-36% in the green, between 500nm to 600nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed).	M		
5e.	The spectrum must be 3-6% Far-Red between 700nm and 780nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed).	M		
6	Light Output PPF: Light Output Photosynthetic Photon Flux (PPF) (μmol/s), must be greater or equal to 1700.	M		
7	Form factor: The Form factor must be linear.	M		
8	Light Distribution: The Light Distribution must be between 118-120°.	M		
9	Mounting: Hangers (two for the lamps and two for the power pack) must be provided to mount lights on 1 5/8" square tubing. Metal hangers are acceptable – no cable hangers.	M		
10	Single-linear LED module which is slim and the shape of the modules (as this helps in avoiding shading of the greenhouse as the size is only a bit wider than the truss which they will be	M		

	<p>hung from).</p> <p>The Maximum dimension of the single-linear LED module (L x H x W) must be: 45" x 4" x 3" with an acceptable variance of +/- 3 inches in length and +/- 2 inches in height and width;</p> <p><u>OR</u> a two-linear LED module is acceptable if each module is within the single-linear LED module dimension given and when mounted together the overall size is not larger than 45" x 4" x 13" (L x H x W) with a variance of +/- 3 inches in length and +/- 2 inches in height and width.</p>			
11	Thermal Management: The Thermal Management must be passively cool.	M		
12	IP Rating: IP Rating must be IP66 or IP67.	M		
13	Must be CSA approved.	M		
14	Delivery must be received on or before August 31, 2021.	M		

ANNEX "B"

BASIS OF PAYMENT

- Prices quoted are to be **Firm**, FOB Destination including all delivery, and offloading in accordance with the requirements in Annex A – Requirement
- Prices quoted are to remain firm for the duration of the Contract.
- Prices quoted do not include GST/HST, however, GST/HST will be added as a separate item on any invoices issued against this Contract.

**FOB Destination location: Agriculture and Agri-Food Canada
5403 – 1 Avenue South
Lethbridge, AB
T1J 4B1**

Contact Project Authority to arrange delivery on contract award.

Table 1: BASIS OF PAYMENT – Firm Requirement

Item	Description	Qty.	Unit of Issue	Unit Price (\$ CAD)	Extended Price (Qty. x Unit Price)
1.	Broad spectrum Linear LED lights (as per specifications in compliance matrix). Including all shipping/delivery and off-loading charges (FOB destination)	30	Each	\$ _____	\$ _____

Table 2: BASIS OF PAYMENT - Optional Goods (AAFC may purchase up to 10 additional units)

Item	Description	Est. Qty.	Unit of Issue	Unit Price (\$ CAD)	Extended Price (Qty. x Unit Price)
2.	Broad spectrum Linear LED lights (as per specifications in compliance matrix). Including all shipping/delivery and off-loading charges (FOB destination)	10	Each	\$ _____	\$ _____

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CAL-0-43140

Buyer ID - Id de l'acheteur
CAL143
CCC No./N° CCC - FMS No./N° VME

TABLE 3 – BASIS OF PAYMENT – Total Evaluated price

Item	Description	Extended Price (Qty. x Unit Price)
1.	TABLE 1 – Firm Requirement	\$ _____
2.	TABLE 2 – Optional Goods	\$ _____
3.	TOTAL EVALUATED PRICE	\$ _____

Solicitation No. - N° de l'invitation
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ANNEX "C" to PART 3 OF THE BID SOLICITATION

ELECTRONIC PAYMENT INSTRUMENTS

As indicated in Part 3, clause 3.1.1, the Bidder must identify which electronic payment instruments they are willing to accept for payment of invoices.

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);