



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

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

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

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

Comments - Commentaires

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

Issuing Office - Bureau de distribution
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	Amendment No. - N° modif. 007
Client Reference No. - N° de référence du client 01586-210004	Date 2021-06-23
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 2021-07-08 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	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
01586-210004/A

Amd. No – N° de la modif.
007

Buyer ID – Id de l'acheteur
CAL143

Client Ref. No. – N° de réf. De client
01586-210004

File No. – N° du dossier
CAL-0-43140

CCC No./ N° CCC – FMS No/ N° VME

This amendment 007 supersedes amendment 006, and is being raised to address questions, extend the closing date and provide revisions with regards to solicitation No. 01586-210004/A:

DELETE: Closing date June 23, 2021 at 2pm (MDT).

INSERT: Closing date July 8, 2021 at 2pm (MDT).

PART A: Questions and Responses

PART B: Revisions to the Request for Proposal

PART A: Questions and Answers

Q1: Item # 5c. Is a spectrum of 26.71% blue acceptable? (The range specified is 19%-24%).

A1: **It is acceptable. Any higher will not be accepted. (See PART B: Revisions)**

Q2: Item # 5e. Is a spectrum of 1.78% Far-Red acceptable? (The range specified is 2%-6%).

A2: **It is also acceptable. Any lower will not be accepted. (See PART B: Revisions)**

Q3: Reference to item 5(d) of ANNEX "A", "The spectrum must be within the range of 34-36% in the green, between 500nm to 600nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed)." Higher green spectrum is more beneficial to plants and it is more effective. Would a green spectrum of 39-40% be acceptable?

A3 **It is acceptable to change 5(d) to "The spectrum must be within the range of 34-40% in the green, between 500nm to 600nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed)." (See PART B: Revisions)**

Q4: Reference to Item #10 of ANNEX "A", for a two-linear LED module, are the following module dimensions acceptable: 43.3" x 5.5" x 3.5" please note that the module will be mounted with a C-bracket which is 3.1 in height.

A4: **Yes, the module dimensions 43.3" x 5.5" x 3.5" are acceptable. Please note that C-bracket/hanger size will not be evaluated for this requirement. Modules and brackets are two separate items and this specification is only referring to the overall size of the module. In addition, the overall height maximum excludes the hangers.**

Q5: Reference to item #12, "IP Rating must be IP66 or IP67", would AAFC accept IP65?

A5: **IP65 is not acceptable because AAFC uses high pressure water to clean the greenhouse compartments.**

Solicitation No. – N° de l'invitation
01586-210004/A

Amd. No – N° de la modif.
007

Buyer ID – Id de l'acheteur
CAL143

Client Ref. No. – N° de réf. De client
01586-210004

File No. – N° du dossier
CAL-0-43140

CCC No./ N° CCC – FMS No/ N° VME

PART B: Revisions to the Request for Proposal

1. **DELETE:** ANNEX "A" - in its entirety.

INSERT:

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:

All the deliverables must be received on or before _____. (To be determined at contract award).

While delivery is requested by September 14, 2021, the best delivery that could be offered is _____. (To be filled out by bidder)

**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

Solicitation No. – N° de l'invitation
01586-210004/A

Amd. No – N° de la modif.
007

Buyer ID – Id de l'acheteur
CAL143

Client Ref. No. – N° de réf. De client
01586-210004

File No. – N° du dossier
CAL-0-43140

CCC No./ N° CCC – FMS No/ N° VME

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
---------------	----------------------------------	---	---	--

Solicitation No. – N° de l'invitation
01586-210004/A

Amd. No – N° de la modif.
007

Buyer ID – Id de l'acheteur
CAL143

Client Ref. No. – N° de réf. De client
01586-210004

File No. – N° du dossier
CAL-0-43140

CCC No./ N° CCC – FMS No/ N° VME

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 or integrated driver if the driver is replaceable.	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: Bidder Information – 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 in a greenhouse setting.	M		
5b.	The spectrum must be within the range of 37-40% in the red, between 600-700nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed).	M		
5c.	The spectrum must be within the range of 19-27% in the blue, between 400-500nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed).	M		

5d.	5d) The spectrum must be within the range of 34-40% in the green, between 500nm to 600nm and the PFD (photon flux density) must be continuously expressed (all wavelengths are expressed).	M		
5e.	5e) The spectrum must be within the range of 1.75-6% in the 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) ($\mu\text{mol/s}$), 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 hung from). The Maximum dimension of the single-linear LED module (L x H x W) must be 38" to 48" x 4" x 3" with an acceptable variance of +/- 2 inches in	M		

Solicitation No. – N° de l'invitation
01586-210004/A

Amd. No – N° de la modif.
007

Buyer ID – Id de l'acheteur
CAL143

Client Ref. No. – N° de réf. De client
01586-210004

File No. – N° du dossier
CAL-0-43140

CCC No./ N° CCC – FMS No/ N° VME

	height and width; OR 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 38" to 48" x 4" x 13" (L x H x W) with a variance of +/- 2 inches in height and width.			
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		

ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME