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11 Laurier St./ 11 rue, Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau, Québec K1A 0S5

Bid Fax: (819) 997-9776

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

Scientific, Medical and Photographic Division /
Division de l'équipement scientifique, des produits
photographiques et pharmaceutiques
L'Esplanade Laurier
140 O'Connor Street,
East Tower, 7th Floor
Ottawa
Ontario
K1A 0S5

| | |
|--|---|
| Title - Sujet Portable 3D Laser Scanner System Système de scanner laser 3D portable | |
| Solicitation No. - N° de l'invitation 4M033-219918/A | Amendment No. - N° modif. 003 |
| Client Reference No. - N° de référence du client 8049918 | Date 2021-10-28 |
| GETS Reference No. - N° de référence de SEAG PW-\$\$\$PV-899-80452 | |
| File No. - N° de dossier pv899.4M033-219918 | CCC No./N° CCC - FMS No./N° VME |
| Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Standard Time EST on - le 2021-11-08 Heure Normale du l'Est HNE | |
| F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/> | |
| Address Enquiries to: - Adresser toutes questions à: Van Den Hanenberg, Stephen | Buyer Id - Id de l'acheteur pv899 |
| Telephone No. - N° de téléphone (343) 540-8371 () | FAX No. - N° de FAX () - |
| Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: | |

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 |

Amendment 003 has been raised to provide an answer to a question from the industry, to modify the Mandatory Technical Requirements, the Mandatory Technical Evaluation Criteria and the RFP closing date.

A Questions and Answers

Q1. Further to the Amendment 001 Section A – Question 4/Answer 4 and Section B – last line item: “the software must export to 3D formats in .obj and .fbx.”

FBX file formats are typically created in AutoDesk 3DS Max, Maya, Motionbuilder and Mudbox software platforms to facilitate a more dynamic exchange of data with other 3rd party software platforms. Best industry practice is to export point cloud data from the proprietary scan data registration software via native AutoDesk RCP/RCS format to the aforementioned software packages first and then use the proprietary AutoDesk FBX SDK plug-in for final export of data to 3rd party software. As such, it is not recommended to export FBX files directly from proprietary scan data registration software. With this in mind, is the direct FBX file format export a mandatory requirement?

A1. Please see the modifications below regarding the software requirement.

B Modifications to the RFP

At Annex A of the RFP, delete **Mandatory Technical Requirements** in its entirety and replace with the following:

The 3D laser scanner system must work and operate at all times in accordance with all of the following mandatory technical requirements:

- Must have a minimum range of 130 m;
- Must have a HDR Integrated camera;
- Must provide a measurement speed of > 500,000 points/sec;
- Must provide a minimum position accuracy of 3mm at 10m;
- Must have a Dual Axis compensator;
- Must operate within temperature range of -10 C to +40 C, inclusive;
- Must be a portable non-stationary unit with total weight, including battery, of no more than 7kg;
- Must have wireless connectivity to a smartphone, tablet, or laptop;
- The software must provide, at a minimum:
 - o Automatic, target-less scan registration;
 - o Visualization of data in 2d and 3d;
 - o Export of data in common point cloud and mesh formats in at least the following formats: .OBJ, .PTS and .XYZ;
 - o Export of ortho-photos in Tiff format; and
 - o Ability to take measurements.

At Annex A of the RFP, delete **Part 2.1 - MANDATORY TECHNICAL EVALUATION CRITERIA** in its entirety and replace with the following:

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003
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pv899.4M033-219918

Buyer ID - Id de l'acheteur
pv899
CCC No./N° CCC - FMS No./N° VME

Part 2.1 - MANDATORY TECHNICAL EVALUATION CRITERIA

| ITEM | CRITERIA | REFERENCE TO SUBSTANTIATION IN THE TECHNICAL BID. |
|------|--|---|
| | The 3D laser scanner system must meet all of the mandatory technical evaluation criteria and each of the following must be substantiated within a technical brochure or technical data sheet. Simply repeating the statement contained in the solicitation is not sufficient. | |
| 1 | Must have a minimum range of 130 m. | |
| 2 | Must have a HDR Integrated camera. | |
| 3 | Must provide a measurement speed of > 500,000 points/sec. | |
| 4 | Must provide a minimum position accuracy of 3mm at 10m. | |
| 5 | Must have a Dual Axis compensator. | |
| 6 | Must operate within temperature range of -10 C to +40 C, inclusive; | |
| 7 | Must be a portable non-stationary unit with total weight, including battery, of no more than 7kg. | |
| 8 | Must have wireless connectivity to connect to a smartphone, tablet, or laptop. | |
| 9 | The software must provide automatic, target-less scan registration. | |
| 10 | The software must provide visualization of data in 2d and 3d; | |
| 11 | The software must provide export of data in common point cloud and mesh formats in at least the following formats: .OBJ, .PTS and .XYZ. | |
| 12 | The software must provide export of ortho-photos. | |
| 13 | The software must provide ability to take measurements. | |

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C **Modification to the RFP closing date**

Canada will be providing bidders with more time to respond to this RFP. The closing date is hereby amended to November 8 2021.

**ALL OTHER TERMS AND CONDITIONS OF THE SOLICITATION
REMAIN THE SAME**