Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

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Gatineau
Quebec
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.

Title - Sujet	
Automated GEOSCAN Mineral Mapping	
Solicitation No. - N° de l'invitation	**Amendment No. - N° modif.**
23240-200239/A	003
Client Reference No. - N° de référence du client	**Date**
23240-200239	2019-12-03

GETS Reference No. - N° de référence de SEAG
PW-$$EE-017-36880

File No. - N° de dossier	**CCC No./N° CCC - FMS No./N° VME**
017ee.23240-200239	

Solicitation Closes - L'invitation prend fin		**Time Zone** **Fuseau horaire**
at - à	**02:00 PM**	Eastern Daylight Saving Time EDT
on - le	**2019-12-23**	

F.O.B. - F.A.B.
Plant-Usine: ☐ Destination: ☐ Other-Autre: ☐

Address Enquiries to: - Adresser toutes questions à:	**Buyer Id - Id de l'acheteur**
Lessard, Peter	017ee
Telephone No. - N° de téléphone	**FAX No. - N° de FAX**
(613) 850-7602 ( )	( ) -

Destination - of Goods, Services, and Construction:
Destination - des biens, services et construction:

Comments - Commentaires

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

Issuing Office - Bureau de distribution
Systems Software Procurement Division / Division des achats des logiciels d'exploitation
Terrasses de la Chaudière
4th Floor, 10 Wellington Street
4th etage, 10, rue Wellington
Gatineau
Quebec
K1A 0S5

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**

Canada

This amendment 003 is raised to respond to questions from suppliers.

Q41.   On page 53 (M1), "The Bidder must demonstrate its experience, as a prime or sub-contractor, in the application of artificial intelligence (AI) technology services – insights and predictive modeling including natural language processing, text analytics and synthesis of structured and unstructured data."

    a.   Does that mean that each project has to include each and every of those elements: insights and predictive modeling, natural language processing, text analytics and synthesis of structured and unstructured data? Or one/some of those elements?

    b.   Also if it's all the elements, should it be for each project, or it can be split across both two projects?

    c.   And should the projects be finished at the time of the bid or they can be still ongoing?

R41.   a.   The bidder must have experience with all of the mentioned areas of expertise. However, each area of expertise does not have to be represented in each project. Bidders may thus demonstrate their overall experience using several projects, each focusing on a different skillset.

*   b.   Bidders can demonstrate their overall expertise using several projects as examples.*

*   c.   Bidders should be able to demonstrate their expertise using fully completed projects.*

Q42.   Regarding the training dataset provided for the purpose of the project.

    a.   Are all the 234 Geoscan files selected to be a part of the training set are specific to one particular ore system, i.e., "nickel"?

    b.   If yes, then since, there are 1628 results for "nickel" when searched in GEOSCAN database, does it mean that, for "nickel" ore system, there are 234 records out of a total of 1628 which are considered to be relevant to the target ore system, in this case "nickel", and the rest are not?

R42.   a.   Yes, the GEOSCAN training set relates to the mafic- to ultramafic rock-hosted ore systems (i.e., "nickel"). The training set was prepared by: (1) first searching GEOSCAN for the word "nickel" and then manually going through the ~1600 entries to find publications that are entirely about the nickel ore system. The word associations in the selected publications that make up the training set should be used to build a predictive model for the remaining 80k GEOSCAN entries.

      b.   *Yes, there will be many publications that have the word "nickel" that will not be about the nickel ore system. Examples include: (a) nickel refining; (b) bioremediation; and (c) the minerals yearbook, which is published yearly (many records).*

Q43.   In the Annex "B" Statement of Work in the table SW.4.1 under the task Stage 1: Data Extraction it is mentioned that the expected deliverable is an electronic data table.

      a.   Does each row of the data table correspond to a GEOSCAN record and the respective model prediction?

      b.   If yes, then as per the SW.3.0 Objectives, it states that task is to also "extract spatial coordinates" of the best matches. Does it refer to extracting the spatial coordinate information from the metadata of records, specifically and limited to the top ranked results?

A43.   a.   *Yes, and the location (latitude, longitude and NTS sheet from the metadata).*

      b.   *Yes, please us the metadata for each publication to supply the location information.*

Q44.   a.   In the Evaluation Criteria (b) of R1 Item of table for Section 1.2 Point Rated Technical Criteria B2 in the document describing the Evaluation Criteria and Basis of Selection, by the term "bias", do you refer to the text patterns and word associations identified being specific to the target ore system that is developed in the Stage 1? If so, then by "mitigation of bias", is it that we are to recognize patterns that are general for ore systems and are not very specific to the target ore system

R44.   *Stage 1 is building a predictive model for the nickel ore system. In that context, bias refers to the predictive model's potential sources of error in searching for publication entries related to the nickel ore system. Stage 2 is building a digital solution that can predict matches using training data for other ore systems. For stage 2, bias would refer to the predictive model's general sources of error in finding matches.*

There are no other changes to this solicitation.