



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Public Works and Government Services Canada
ATB Place North Tower
10025 Jasper Ave./10025 ave. Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

**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
ATB Place North Tower
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

Title - Sujet Test Frame for Blast Trials	
Solicitation No. - N° de l'invitation W7702-165797/A	Amendment No. - N° modif. 002
Client Reference No. - N° de référence du client W7702-165797	Date 2016-07-19
GETS Reference No. - N° de référence de SEAG PW-\$EDM-607-10793	
File No. - N° de dossier EDM-5-38369 (607)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2016-08-04	
Time Zone Fuseau horaire Mountain Daylight Saving Time MDT	
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: Jenkinson, Lorraine	Buyer Id - Id de l'acheteur edm607
Telephone No. - N° de téléphone (780) 497-3593 ()	FAX No. - N° de FAX (780) 497-3510
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

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Buyer ID - Id de l'acheteur
edm607
CCC No./N° CCC - FMS No./N° VME

TITLE: FINAL DESIGN AND ASSEMBLY OF TEST FRAME FOR BLAST TRIALS

This solicitation amendment is to extend the solicitation closing date and provide clarifications to the Request for Proposal (RFP).

1. The solicitation closing date has been extended:

FROM: 02:00 PM MDT on 2016-07-21

TO: 02:00 PM MDT on 2016-08-04

PART A: QUESTIONS/ANSWERS

- Q-1. a) We have spent the last week reviewing this RFP with our speciality blast consultants, who have advised there is insufficient information regarding the blast parameters to propose a final solution.
- b) As well, the following information is required:
- specific site location
 - geotechnical information
- c) It is unclear why there is a requirement to repair and rebuild the test frame rather than build it to suite the six or more tests. We do not consider there is adequate information for us to provide a design-build bid at this time. Would you consider an alternate delivery method?
- d) Our team is prepared to provide a design following consultations with your team, and further investigations as required, along with a price and schedule for your review and consideration. Our team would require reimbursement for this phase. If our design, price and schedule is acceptable we would accept a lump sum contract to construct the test frame. This would be a two phase design-build rather than what is described in the RFP.
- e) We would also be prepared to proceed on a Construction Management basis with our consultant team being hired through us or to you directly.
- A-1. a) All of the available information with respect to the explosive blast effects has been provided. Because the size, location and type of explosive may change throughout the trials, it is not possible to provide rigidly defined characteristics. This is precisely why the contract allows for evaluation, and repair between blast tests.
- b) Additional information:
- Specific site location: the location will be somewhere on the DRDC Suffield experimental proving ground. Although the exact location has not yet been finalized it will be safe to assume that the location will be approximately 15-20km from the main base, which is on Alberta Highway 884, 6km north of the intersection of highway 1 and highway 884.
 - Geotechnical information: Geotechnical information below is extracted from two sources. The first is from the open information available through Alberta Agriculture & Forestry's "Alberta Soil Information Viewer". The second source is an unpublished

report held at DRDC Suffield. The location will be somewhere on the DRDC Suffield experimental proving ground. The exact geotechnical details will depend on the final location, but the details shown below are similar no matter which location is finally chosen.

1. Alberta Agriculture & Forestry "Alberta Soil Information Viewer"
[http://www1.agric.gov.ab.ca/\\$department/deptdocs.nsf/all/sag14396](http://www1.agric.gov.ab.ca/$department/deptdocs.nsf/all/sag14396)

- orthic brown chernozem on gravel or gravelly coarse textured (S, LS, SL) undifferentiated materials (includes cobbly and stony variations) (pun). The polygon includes soils that are finer textured than the dominant or co-dominant soils (5).
- orthic brown chernozem on gravel or gravelly coarse textured (S, LS, SL) undifferentiated materials (includes cobbly and stony variations) (pun). The polygon includes soils that are finer textured than the dominant or co-dominant soils (5).
- orthic brown chernozem on medium textured (L, SIL) sediments deposited by wind and water (chn). The polygon may include soils that are not strongly contrasting from the dominant or co-dominant soils (1).
- orthic brown chernozem on medium textured (L, SIL) sediments deposited by wind and water (chn). The polygon includes soils that are coarser textured than the dominant or co-dominant soils (6).

2. Unpublished Report

- CD series: this soil series has developed on alluvial Aeolian deposits. These soils are orthic brown chernozems with loamy sand surface textures. Topsoil colours are grayish brown to pale brown in material that is loose and nearly structureless. At about 4 inches below the surface there is a gradual change to the pale brown subsoil which is also loose and nearly structureless. The loamy sand texture gradually changes to sand in the lower subsoil.
- PU series: this soil series is classified as an orthic brown chernozem and has developed on outwash materials. It has a 3 or 4 inch topsoil horizon of gritty sandy loam which is grayish brown in color. The subsoil is usually loam to sandy/loam and about 4 to 6 inches thick. It has a weak, coarse prismatic structure and a yellowish brown color. The lower subsoil quickly changes to coarser sands and gravels in which there is a medium lime carbonate content.
- TV series: this soil series has been classified as a calcareous brown chernozem. It has a few inches of grayish brown topsoil with a loam texture and a loose granular structure. The subsoil is composed of clay loam materials with a weak prismatic structure in which low amounts of lime are present. Lime carbonate concentrations increase in the lower subsoil at or near the 10 inch depth where clay loam textures persist and any definite structure is lacking.
- FM series: this soil series has been classified as an orthic brown chernozem. It has a few inches of brown to grayish brown topsoil which usually has a loam texture and a weak granular structure. The brown to yellowish brown subsoil has a prismatic structure in materials of a heavy loam to clay loam texture, and is from 6 to 10 inches thick. The lower subsoil occurs abruptly at 12 to 14 inches below the surface, and is characterized by its lime content which gives it a light brownish gray color. With depth, the concentration of lime diminishes. Textures in the lower subsoil are fairly consistently clay loam.

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- c) The test frame will be used to support a section of wall made using historic masonry methods and materials. Depending on the level of damage to the historic masonry wall from the explosive blasts, there may be a requirement to increase the size of the explosive charge or to move the charge closer to the wall and test frame. As a result, there is the possibility that the blast could impart damage not only to the historic masonry wall but also to the test frame, and there may therefore be a requirement to repair or rebuild the test frame for further tests. because we cannot definitively state what the final charge size or location will be, we cannot definitive state what the explosive loading on the test frame will be. Therefore, as stated in the RFP, if the technical authority perceives a need to repair the test frame, the contractor will be asked for a quotation to effect the repairs. If the repairs can be made within the available budget, the technical authority will authorize the repairs. If the test frame repairs are not economically feasible, the rest of the trial may need to be halted by the technical authority.
 - d) The RFP already contains a conceptual design for the test frame, and requests that the contractor provide a preliminary design with the bid. During the (funded) first phase of the contract the contractor and the technical authority will consult to ensure that the preliminary design is developed to an acceptable final design. This is stated in the RFP, and appears to satisfy this request.
 - e) We are not in a position to issue separate contracts. The contractor must provide the necessary management, design and construction services in a single, integrated package. There is nothing to preclude the contractor from having subcontractors for any of these components.
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If your bid has already been submitted, you may wish to revise it. Revisions to your bid must be submitted in a sealed envelope with the contents clearly identified on the outside of the envelope. Any revisions to your bid must be received by the Bid Receiving Unit on or before the time and date stated on page 1 of this document. Any revisions to your bid received after the closing date and time will be considered late and will be returned unopened.