

## **ADVANCE CONTRACT AWARD NOTICE (ACAN)**

### **1. Advance Contract Award Notice (ACAN)**

An ACAN is a public notice indicating to the supplier community that a department or agency intends to award a contract for goods, services or construction to a pre-identified supplier, thereby allowing other suppliers to signal their interest in bidding, by submitting a statement of capabilities. If no supplier submits a statement of capabilities that meets the requirements set out in the ACAN, on or before the closing date stated in the ACAN, the contracting officer may then proceed with the award to the pre-identified supplier.

### **2. Definition of Requirements**

To provide analysis and velocity interpretations of newly acquired Arctic sonobuoy refraction data for application of depth conversion of seismic reflection data. The Contractor will also provide reports and figures that demonstrate methods and results for technical and scientific publications for Geological Survey of Canada, Atlantic (GSC-A) in Dartmouth, Nova Scotia on an as and when requested basis

The objective of the standing offer is to carry-out the following tasks on a call-up basis:

- Conversion of raw wide angle reflection/refraction seismic data from various acquisition systems used by the GSC to create SEG-Y format seismic records for processing and analysis.
- Preparation of the seismic records for velocity analysis and interpretation (including source-receiver offsets and survey geometry)
- Signal processing of the seismic records to include noise filtering, amplitude recovery, and possible shaping of the seismic source wavelet.
- Integration of wide angle reflection/refraction seismic data with vertical incident seismic reflection data to generate models for velocity analysis.
- Interpretation of recorded wide angle reflection/refractions seismic data to produce 2-D velocity structure models to standards that include error bars of the velocity models.
- Velocity analysis of shear-wave converted refraction phases.
- Software and/or tool development for web enabling of wide angle seismic reflection/refraction and other geophysical information (such as well logs, magnetic and gravity data) using GSC protocols and standards (eg. ORACLE, XML, interactive PDFs)
- Preparation of technical and interpretive results for GSC Open files and publications.
- Travel to meetings when required to fulfill contract deliverables
- Must be able to attend meetings with scientific staff at least once a week at GSC-A, Dartmouth, Nova Scotia

### **3. Criteria for Assessment of the Statement of Capabilities**

Any interested supplier must demonstrate by way of a statement of capabilities that it meets the following requirements:

- a) Advanced degree (PhD) in Geophysics with a specialty in wide angle reflection/refraction seismic analysis and interpretation
- b) Extensive experience (> 10 years) in seismic refraction and reflection analysis and interpretations
- c) Extensive experience (> 10 years) in integrated Arctic and North Atlantic geophysical research studies including seismic refraction and reflection interpretations, potential field data, heat flow and well logs
- d) Demonstrated writing skills with (at least 5) published papers in peer-reviewed scientific journals (such as Journal of Geophysical Research, Canadian Journal of Earth Sciences, Tectonophysics).
- e) Five (5) years recent familiarity with technical requirements for U.N. Article-76 Extended Continental Shelf submission guidelines
- f) Experience in handling raw digital data formats from different seismic acquisition systems (e.g. TAURUS geophones, ULTRA sonobuoys, GSC's seismic reflection system, GSC Ocean Bottom seismometers)
- g) Experience in software and web development in the field of seismic reflection and refraction processing and interpretation.
- h) Ability to write PHP, Oracle, Java code, C and C++, .NET

#### **4. Trade Agreements**

This procurement is subject to the following trade agreement(s):  
North America Free Trade Agreement (NAFTA); Agreement on Internal Trade (AIT),  
WTO-AGP, Canada/Chile; Canada/Columbia and Canada/Panama.

#### **5. Justification for the Pre-Identified Supplier**

We intend to deal directly with the supplier mentioned in section 10 below, as to our knowledge, it is the only supplier that meets the mandatory criteria set out in section 3 above.

The company has developed and owns a proprietary software package called Seiswide that integrates vertical incident and wide angle reflection profiles to produce depth migrated seismic reflection sections. This software is not available through licensing.

The (proprietary) methodology developed by the Company involves simultaneous modelling of both the wide angle reflected and refracted seismic signals recorded by the sonobuoys and the coincident (vertical) seismic reflection data for geometric constraints. This technique is not available by any other company within Canada or worldwide.

The UNCLOS Program is mandated to produce a legal document to submit to the United Nations (under U.N Article 76 – The Law of the Sea) to claim new sovereign limits for Canada. The Company has been contracted to analyse all of the 2007-2014 sonobuoy data and its services are required to finalize the analysis of the data collected during the final field season. The use of a consistent robust methodology for processing and interpreting the sonobuoy data, as well as quantifiable error analysis, are critical requirements defined by U.N Article 76.

Should Canada receive a statement of capabilities from a supplier that contains sufficient information to indicate that it meets the requirements set forth in this ACAN, a competitive process will be triggered with a technical and financial evaluation methodology of the bids proposed by the potential bidders

## **6. Exception to the Government Contracts Regulations and applicable trade agreements**

The following exception(s) to the Government Contracts Regulations is (are) invoked for this procurement under subsection 6(d) - "only one person is capable of performing the work".

The identified provider, Chian Consulting Inc., is the only one able to meet all of the criteria identified in paragraph 3 above.

## **7. Exclusions and/or Limited Tendering Reasons**

The following exclusion(s) and/or limited tendering reasons are invoked under the: North American Free Trade Agreement (NAFTA): Article 1016, 2, (b); Agreement on Internal Trade: Article 506.12 (b); World Trade Organization: Articles XIII (b).

## **8. Contract Period**

The Standing Offer period will be May 19, 2016 to March 31, 2019.

## **9. Estimated Cost**

The total estimated value of the Standing Offer is \$345,000.00 CAD inclusive.

## **10. Name and Address of the Proposed Contractor**

Chian Consulting Inc.  
6238 Regina Terr  
Halifax, NS B3H 1N5

## **11. Suppliers' right to submit a statement of capabilities**

"Suppliers who consider themselves fully qualified and available to provide the services/goods described herein, may submit a Statement of Capabilities in writing, preferably by e-mail, to the contact person identified in this Notice on or before the closing date and time of this Notice. The Statement of Capabilities must clearly demonstrate how the supplier meets the advertised requirements."

## **12. Closing Date**

The closing date for a submission of a Statement of Capabilities will be May 18, 2016 at 1400 Atlantic Standard time.

## **13. Contract Authority**

Julia Armstrong  
Procurement Officer

Email: [Julia.armstrong@canada.ca](mailto:Julia.armstrong@canada.ca)