

ITEM OPPORTUNITY SYNOPSIS

Name of the item to be scouted: Electromagnetic Induction Instrument

State item to be used in: Oregon

Describe the Item:

Please describe the item application/the end use of item. Field based electromagnetic induction instrument to measure the electrical conductivity and magnetic susceptibility of the earth in multiple configurations and depths of investigation up to 13 meters. This is a geophysical instrument for use in harsh environments at extreme high and low temperatures. Examples of similar instruments:

<http://www.geonics.com/html/em31-mk2.html> http://www.geophex.com/Product_GEM2_handheld.htm
<https://dualem.com/products/>

Supplier Information:

Type of Supplier being sought (select from list below)

Manufacturer

Contract Manufacturer

Distributor

Other (please specify)

Reason for scouting submission (select from list below)

2nd Supplier

Price

Re-Shore

Past supplier no longer available

New Product Startup

Other (please specify) Buy America

Summary of Technical Specifications and Performance Requirements:

Describe the manufacturing processes (elaborate to provide as much detail as possible). electronics construction and light weight housing. Electromagnetic induced signal must be at multiple frequencies to enable depth layer determination of the bulk earth electrical conductivity and magnetic susceptibility at incremental depths up to 13 meters. Control of the instrument must be via a remote handheld device such as a cell phone or other handheld controller.

Provide dimensions / size / tolerances / performance specifications of the item. 1 unit designed and built to achieve the objectives.

List required materials needed to make the product, including materials of product components, if applicable. non electrically conductive material for the electromagnetic signal to penetrate the earth.

Are there applicable certification requirements?

Yes

No

Please Explain:

Are there any applicable regulations that apply to the production of this item?

Yes

No

Please Explain:

Are there any other standards, requirements?

Yes

No

Please Explain:

Additional Comments:

Additional technical comments: An electromagnetic sensor with internal logger to record the electromagnetic (EM) response of the earth with both the electrical conductivity and magnetic susceptibility, spatial coordinates, time, temperature, components of the ambient magnetic field, spatial orientation of the instrument (i.e., pitch and roll), GPS internal receiver, internal logger with NMEA \$GPGGA strings. Instrument must use EM induction and not direct contact with the earth and operated by one or two individuals or via a cart. The instrument must be capable of surveying on land or over water. Software must be included to control the instrument, store the data, download the data, and process the data.

Volume and Pricing:

Estimated Potential Business Volume (i.e. #Units per day, month, year): 1 item

Estimated Target Price / Unit Cost Information: 1 @ \$110,000

Delivery Requirements:

When is it needed by? (Immediate, 30 days, 6 months, etc) 10 months

Describe packaging requirements (i.e., individually/ group packaging). One item in a robust case for shipping

Where will this item be shipped? Newport, OR

Additional Comments:

Is there other information you would like to include? - Vendor/company must be registered or will register in SAM.gov (<https://sam.gov/content/home>). - This inquiry does not guarantee award of a contract. - EPA requires a commercial off the shelf instrument that is immediately available that meets the technical specifications attached. Vendors shall provide documentation that their proposed product meets or exceeds the technical specifications attached.