

MEPNN Supplier Scouting Opportunity Synopsis

Item Information	
Scouting Number	2023-104
Item to be Scouted	Electromagnetic induction instrument
Days to be scouted	30
Description	<p>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.</p> <p>Examples of similar instruments:</p> <p>http://www.geonics.com/html/em31-mk2.html</p> <p>http://www.geophex.com/Product_GEM2_handheld.htm</p> <p>https://dualem.com/products/</p>
State item to be used in	Oregon

Contact Information	
Email	werkema.d@epa.gov
First Name	Dale
Last Name	Werkema
Department / Company / MEP Center	Environmental Protection Agency, U.S.
Bureau / Division / MEP Center Regional Office	ORD/CPHEA/PESD/PCEB

Supplier Information	
Type of supplier being sought	Distributor
Reason	Other
Details	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 for the item	1 unit designed and built to achieve the objectives.
List required materials needed to make the product, including materials of product components	non electrically conductive material for the electromagnetic signal to penetrate the earth.

Are there applicable certification requirements?	No
Are there applicable regulations?	No
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	1 item
Estimated target price / unit cost information (if unavailable explain)	1 @ \$110,000

Delivery Requirements

When is it needed by?	10 months
Describe packaging requirements	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?	<ul style="list-style-type: none"> - 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.
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