

MEPNN Supplier Scouting Opportunity Synopsis

Item Information

Scouting Number	2023-103
Item to be Scouted	Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)
Days to be scouted	30
Description	Inductively coupled plasma optical emission spectrometer (ICP OES) instrument
State item to be used in	Oklahoma

Contact Information

Email	costantino.lisa@epa.gov
First Name	Lisa
Last Name	Costantino
Department / Company / MEP Center	Environmental Protection Agency, U.S.
Bureau / Division / MEP Center Regional Office	ORD/CESER/GCRD

Supplier Information

Type of supplier being sought	Manufacturer
Reason	Other
Details	Research instrumentation

Summary of technical specifications and performance requirements

Describe the manufacturing processes (elaborate to provide as much detail as possible)	<p>The ICP-OES system consists of the main instrument, a computer controller assembly, and a suitable chiller. The plasma should have a dual viewing vertical setup with Flat Plate technology. The system should be equipped with a high throughput system consisting of a 7-port valve, 4-channel peristaltic pump and a high-speed vacuum pump. Technology similar to that of PlasmaShear technology should be incorporated with the ICP system and should utilize air. The detector should be a segmented array charge-coupled device detector paired with an echelle-based polychromator. The instrument should utilize multicomponent spectral fitting for greater accuracy.</p> <p>The radio frequency (RF) generator should be a free-running solid state RF generator paired with technology similar to that of Flat Plate technology to generate transversely symmetrical plasma to prevent sample and vapor escape.</p>
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Provide dimensions / size / tolerances / performance specifications for the item	The footprint of the ICP-OES should be 76cm X 87cm X 84 cm with a weight of 163 kg and a wattage of 2800. The chiller footprint should be 36.5cm x 61cm x 67.3cm with a weight of 81 kg and a wattage of 2000. The controller should be a Dell Windows 10 computer with Syngistix software. The Argon and nitrogen hoses should be 6 meters (m). The 2 water hoses should be 3.7 m. The air hose for shear gas should be 3.7 m. The power supply cable should be 2.5 m. An IEC 60309 250 V 16/20 A 2-pole plus protective earth plug and it's compatible receptacle must also be included with the instrument.
List required materials needed to make the product, including materials of product components	Off the shelf commercial item.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Additional Technical Comments	Please see attachments for extra technical specification details.

Volume and Pricing

Estimated potential business volume	This will be a single (1 time) purchase.
Estimated target price / unit cost information (if unavailable explain)	\$185,000.00

Delivery Requirements

When is it needed by?	November 1, 2023
Describe packaging requirements	Instrument must be thoroughly and carefully wrapped as not be damaged in shipping.
Where will this item be shipped?	919 Kerr Research Drive Ada OK 74820

Additional Comments

Is there other information you would like to include?	
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