

ITEM OPPORTUNITY SYNOPSIS

Scouting Number:	2024-241
Name of the item to be scouted:	(ICP-OES) Air Cooled Chiller and Autosampler
State item to be used in:	Texas
Describe the Item:	
Please describe the item application/the end use of the item.	Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES) with direct system control Air Cooled Chiller (115 V/60 Hz) Autosampler - Four-rack sample system Carbon Fiber Probe And associated drains, sample packs and racks, data stations, software, and test solutions
Supplier Information:	
Type of Supplier Being Sought (select from the list below):	
Manufacturer	x
Contract Manufacturer	
Distributor	
Other (Please Specify)	
Reason for Scouting Submission (select from the list below)	
2nd Supplier	
Price	
Re-Shore	
Past supplier no longer available	
New Product Startup	
BABA	x
Other (Please Specify)	
Summary of Technical Specifications and Performance Requirements:	
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Mechanical / Electronic Assembly
Provide dimensions / size / tolerances / performance specifications of the item	ICP-OES: 200 -240 V AC, 20 A, Plug must be NEMA L6-20P - Exhaust – Inlet diameter of 125mm, Ability to operate with air flow not exceeding 230 CFM Air Cooled Chiller (115 V/60 Hz): air cooled recirculating chiller with a cooling capacity of 900 W for a temperature range of 5° to 40° C. For a supply voltage of 115 V and frequency of 60 Hz. - Electrical – 115v, 20A, Plug must be compatible NEMA 5-20R Autosampler - Four-rack sample system for automated liquid sample introduction - 84 to 384 solution capacity dependent on rack configuration - Compatible with iCAP Series ICP-OES - Suitable for 100 -240v and 50/60Hz operation - Contains: Autosampler, baseplate, rinse station, tubing, Power supply and different cords, One USB cable for communication,Two carbon-fiber probes: 0.5 mm i.d. (blue band) and 0.8 mm i.d. (red band), Ten 50 mL polypropylene tubes with caps for standards, One 60 position BelArt tube rack, and Sixty 14 mL polypropylene tubes - Must be compatible with ICP-OES Carbon Fiber Probe: Sample probe with 0.5 mm inner diameter and blue band for use with autosamplers and ICP-OES Drain pump tubing (PVC) for aqueous applications Sample pump tubing (PVC) for aqueous applications. One piece of 2.0 mm Tygon peristaltic pump tubing with fittings for DP2 and DP3(square) rinse pumps Data Station (100/230V, 50/60Hz) Software for ICP-OES Power cords for ICP-OES instruments for North America for a nominal voltage of 200-240 VAC, 50-60 Hz, single phase, containing: - 1 x NEMA 6-20P - 1 x NEMA L6-20P 2 DAYS ONSITE SUPPORT Sample Rack - 60 Position (PP) - 60 position sample rack (for 13-16 mm vials) Test Solutions for ICP-OES - 430122821401: iCAP Series Multi Element Test Solution (METS, containing in ppm: P 10; K, Ni 5; Al, Cu, Mn 1; Ba, Ca, Mg, Zn 0.2) - 430122821411: iCAP Series Setup Solution (Loaded Blank, 2 ppm Zn), used as blank solution for performance checks
List required materials needed to make the product, including materials of product components, if applicable	Various
Are there applicable certification requirements?	
Yes	
No	x
Please explain:	
Are there any applicable regulations that apply to the production of this item?	
Yes	
No	x
Please explain:	
Are there any other standards / requirements?	

Yes	
No	x
Please explain:	
NAICS CODES:	
NAICS 1	334516 Analytical laboratory instrument manufacturing
NAICS 2	
Additional Comments:	
Additional technical comments:	EPA is aware of at least three resellers/manufacturers capable of providing these items. See link for additional information. https://www.thermofisher.com/us/en/home/virtual/icap-pro-icp-oes-3d-tour.html?icid=CMD_sf_inductively-coupled-plasma-optical-emission-spectrometry-icp-oes_icap-pro-product-tour_1122
Volume and Pricing:	
Estimated Potential Business Volume (i.e. #units per day, month, year):	One-time purchase
Estimated Target Price/Unit Cost Information:	\$91,157.84
Delivery Requirements:	
When is it needed by? (Immediate, 30 days, 6 months, etc.)	45 days after award (September 20, 2024)
Describe packaging requirements (i.e. individually/group packaging, etc.)	No specific packaging requirements identified. Best available. Product must be delivered undamaged.
Where will this item be shipped?	Houston TX US 77099-4303
Additional Comments:	
Is there other information you would like to include?	United States EPA Point of Contact information for questions including BABA/Buy American compliance: Jennifer Mendenhall Mendenhall.Jennifer@epa.gov Please copy scouting@nist.gov on all correspondence.

SNAP Addendum

Product/Line Item Details for each item that will appear on your purchase:

EXACT QUANTITY	UNIT OF MEASURE	ITEM DESCRIPTION / SALIENT CHARACTERISTICS	KNOWN MANUFACTURER(S) PART/MODEL NUMBER(S)	IN WHAT COUNTRY IS THIS KNOWN ITEM MANUFACTURED
1	each	<p>iCAP PRO XP Duo ICP-OES</p> <ul style="list-style-type: none"> iCAP PRO XP Duo ICP-OES with direct system control via Qtegra ISDS Software Electrical – 200 -240 V AC, 20 A, Plug must be NEMA L6-20P Exhaust – Inlet diameter of 125mm, Ability to operate with air flow not exceeding 230 CFM See ICP Specifications attachment 	Thermo BRE731413	Germany (on GSA)
1	each	<p>TF900 Air Cooled Chiller (115 V/60 Hz)</p> <ul style="list-style-type: none"> ThermoFlex 900 air cooled recirculating chiller with a cooling capacity of 900 W for a temperature range of 5° to 40° C. For a supply voltage of 115 V and frequency of 60 Hz. Electrical – 115v, 20A, Plug must be compatible NEMA 5-20R 	Thermo 10110301000003	USA (on GSA)
1	each	<p>CETAC Model ASX560 Autosampler</p> <ul style="list-style-type: none"> Four-rack sample system for automated liquid sample introduction 84 to 384 solution capacity dependent on rack configuration Compatible with iCAP Series ICP-OES Suitable for 100 -240v and 50/60Hz operation Contains: Autosampler, baseplate, rinse station, tubing, Power supply and different cords, One USB cable for communication, Two carbon-fiber probes: 0.5 mm i.d. (blue band) and 0.8 mm i.d. (red band), Ten 50 mL polypropylene tubes with caps for standards, One 60 position BelArt tube rack, and Sixty 14 mL polypropylene tubes Must be compatible with iCAP Pro XP Duo ICP-OES 	Thermo BRE0003260	USA (on GSA)
1	each	<p>CETAC 0.5mm ID Carbon Fiber Probe</p> <ul style="list-style-type: none"> Sample probe with 0.5 mm inner diameter and blue band for use with Teledyne CETAC Autosamplers and ICP-MS applications 	Thermo 942315500161	USA (on GSA)
1	each	<p>Pump tubing aqueous drain (pack 6)</p> <ul style="list-style-type: none"> Drain pump tubing (PVC) for aqueous applications. One pack of six tubes. 	Thermo 842312051521	United Kingdom
1	each	<p>Pump tubing aqueous sample (pack 6)</p> <ul style="list-style-type: none"> Sample pump tubing (PVC) for aqueous applications. One pack of six tubes. 	Thermo 842312051511	United Kingdom
1	each	<p>2.0 mm Tygon CETAC AS Pump Tubing</p> <ul style="list-style-type: none"> One piece of 2.0 mm Tygon peristaltic pump tubing with fittings for DP2 and DP3(square) rinse pumps. 	Thermo BRE0027229	USA
1	each	<p>Data Station (100/230V, 50/60Hz)</p> <ul style="list-style-type: none"> Dell OptiPlex 3080MT for ICP-OES and AAS • 24" flat screen monitor 	Thermo 842314050004	China

		<ul style="list-style-type: none"> • Intel® Core i3-10100 (3.60 GHz, 6 MB) Processor • Windows 10 IoT Enterprise (64 bit) • 16 GB (8 GB*2) (DDR4 2400 MHz) Memory • 1 TB 7200 rpm SATA Hard Disk Drive • Intel (HD 4600) Integrated Graphics Card • 8x DVD+/-RW Optical Drive • 2 (1 integrated network card, 1 PCI-Network card) Network Adapters • DELL USB Optical Mouse and USB Keyboard English version • 3 Year Hardware Service Warranty with Onsite Service After Remote Diagnosis • Must be compatible with iCAP Pro XP Duo ICP-OES 		
1	each	<p>Qtegra ISDS for iCAP PRO</p> <ul style="list-style-type: none"> • Instrument (1 seat) and Desktop (3 seats) License and Thermo Scientific™ Qtegra™ • Intelligent Scientific Data Solution™ (ISDS) Software for iCAP PRO Series ICP-OES • Qtegra ISDS Software includes: <ul style="list-style-type: none"> • Data processing capabilities for trace elemental quantification • Integrated Interelement Correction (IEC) workflow based on intensity or concentration • Clear data visualization and data transparency • Comprehensive data export and reporting options • Full suite of 21CFR Part 11 compliance tools 	Thermo BRE0020564	Germany (on GSA)
1	each	<p>iCAP PRO CountKit NA</p> <ul style="list-style-type: none"> • Power cords for iCAP PRO Series ICP-OES instruments for North America for a nominal voltage of 200-240 VAC, 50-60 Hz, single phase, containing: <ul style="list-style-type: none"> - 1 x NEMA 6-20P - 1 x NEMA L6-20P 	Thermo BRE0020420	Austria
1	each	<p>2 DAYS ONSITE SUPPORT</p> <ul style="list-style-type: none"> • Includes instrument installation 	Thermo 702-023402	Service
3	each	<p>Sample Rack - 60 Position (PP)</p> <ul style="list-style-type: none"> • 60 position sample rack (for 13-16 mm vials) made from polypropylene to fit on Teledyne CETAC Autosamplers. 	Thermo BRE0033171	Taiwan
1	each	<p>Test Solutions for iCAP Series ICP-OES</p> <ul style="list-style-type: none"> • 430122821401: iCAP Series Multi Element Test Solution (METS, containing in ppm: P 10; K, Ni 5; Al, Cu, Mn 1; Ba, Ca, Mg, Zn 0.2) • 430122821411: iCAP Series Setup Solution (Loaded Blank, 2 ppm Zn), used as blank solution for performance checks (and/or Torch Alignment in iCAP 6000/7000 Series ICP-OES) 	Thermo 842313050711	USA

For the ICP:

Electrical – 200 -240 V AC, 20 A, Plug must be NEMA L6-20P

Exhaust – Inlet diameter of 125mm, Ability to operate with air flow not exceeding 230 CFM

Features – Able to automatically turn off plasma at end of analytical sequence, Able to operate in both radial and axial viewing modes, Able to read wavelengths from 167 – 852 nm, 3 channel or greater peristaltic pump, instrument model must be recent, not exceeding 5 years

For the Chiller:

Electrical – 115v, 20A, Plug must be compatible NEMA 5-20R

Data station and autosampler need to be compatible with the quoted ICP. Autosampler needs to be able to accommodate no less than 180 vial locations.