



STATE OF ALASKA
Department of Environmental Conservation
Division of Air Quality

Sulfur Dioxide Trace Level Analyzer
RFQ No. 18-623-24
Fairbanks, Alaska

Date of Issue: March 7, 2024

PURPOSE:

The State of Alaska, Department of Environmental Conservation, Division of Air Quality is soliciting quotes for one (1) Sulfur Dioxide Trace Level Analyzer for the air quality under the Division's Air Monitoring & Quality Assurance (AMQA) Program.

The Procurement Officer for this document is:

Heather Zepp, Procurement Specialist 3
State of Alaska, Department of Environmental Conservation,
Division of Administrative Services
Email: DECDASPROCUREMENT@alaska.gov

Item Description:

The Department of Environmental Conservation (DEC) requires the purchase of one (1) Sulfur Dioxide Trace Level Analyzer. The EPA regulatory air quality monitors run by the State of Alaska Air Quality must be operated under stringent federal requirements and communicate with a highly technical and crucial Data Acquisition System (DAS) and Site Node Loggers. AMQA requires the replacement of an automated federal equivalent method sulfur dioxide trace-level UV fluorescence gas analyzer. These instruments are periodically replaced with newer instrumentation to ensure high-quality, reliable, and accurate data. This analyzer will assist in identifying pollutants in the Fairbanks, Alaska, non-attainment area that may affect the health and well-being of Alaskan residents and have serious implications for DEC's ability to measure and show improvement or attainment in at-risk communities, which may lead to federal action. This instrument must be EPA equivalent method EQSA-0495-100, capable of being operated on any full-scale user selectable range between 0-50 ppb and 0-1000 ppb, at any temperature in the range of 5 to 40 degrees C, with a TFE filter element or a Kynar® DFU installed in the filter assembly. Must have a lower detectable limit of <50 ppt and linearity of 1% full scale. The instrument will be supplied with at least one (1) Ethernet 10/100 Base-T port, two (2) RS-232 ports, two (2) USB ports, a front power switch, a color touchscreen display, 100- to 120-volt power connection, internal memory capable of retaining at least one (1) month of sample data, at least 1-year warranty, rackmount with chassis slides, analyzer annual maintenance kit, paper manual, and power cable. The instrument will be shipped to Fairbanks, Alaska. The DEC Project Manager must approve alternative offers.

The chosen vendor is expected to supply the units and handle shipping to the DEC location at:
610 University Avenue
Fairbanks, Alaska 99709

Specifications:

The requested equipment should meet the following technical specifications:

- This instrument must be EPA Automated Equivalent Method EQSA-0495-100;
- Capable of being operated on any full-scale user-selectable range between 0-50 ppb and 0-1000 ppb;
- Operated at any temperature in the range of 5 to 40 degrees C, with a TFE filter element or a Kynar® DFU installed in the filter assembly;
- Must have a lower detectable limit of <50 ppt and linearity of 1% full scale;
- Instrument will be supplied with at least (1) Ethernet 10/100 Base-T, (2) RS-232 ports, (2) USB ports;
- A front panel-mounted power switch;
- Color touchscreen display;
- 100- to 120-volt power and a maximum current draw of 15 amps;
- An internal memory capable of retaining at least one (1) month of sample data;
- A minimum of a 1-year warranty;
- Rack mountable with slide rails;
- An analyzer annual maintenance kit;
- A paper manual; and
- A power cable.

To DEC's satisfaction, the vendor shall provide the item(s) and perform the one-year warranty/maintenance support included in the purchase. The vendor shall be responsible for all communications regarding the purchase and delivery of the equipment and shall discuss any issues, recommendations, and decisions related to the contract with DEC. The vendor will be the sole point of contact on all matters related to the purchase.

Questions regarding this document shall be addressed in writing to the Procurement Officer and sent to the following E-mail address: DECDASPROUREMENT@alaska.gov.