Specifications

Mercury Analyzer

Background and Scope

The item required is a Mercury Analyzer. This instrument will measure the amount of mercury in soils, minerals, aqueous samples, and other materials. This data is critical to understanding how mercury cycles in natural systems, including into plants like crops are part of the human food supply. This instrument is needed for a series of experiments and field trials for our interagency agreement with the U.S. Environmental Protection Agency, and it will also be particularly useful for research on mercury mobility in U.S. environmental systems that impact the safety of our food. This will provide tangible benefits for the U.S. EPA and also translate into increased food safety for the U.S. people through increasing understanding of how mercury moves in natural systems and how to prevent plant uptake of this toxic metal. This research closely aligns with the goals of my laboratory and our research group, in addition to being an essential resource for collaboration within the agency and with external research partners.

Technical Requirements

- The mercury analyzer must be able to analyze a variety of samples, including soils, water, and plant tissues.
- The mercury analyzer must have a mercury detection limit of 0.001 ng to be able to process our samples.
- One-year original factory warranty valid for twelve (12) months from date of installation.
- One day of user/operator maintenance training.

Government Furnished Property

No government property will be provided to the contractor.

Data Requirements

The contractor must provide the manuals for the mercury analyzer.

Packaging and Shipping

The packing and shipping must be in a sturdy package with sufficient packing material. Delivery to be made to 10300 Baltimore Avenue, Building 001, Room 124, Beltsville, MD 20705 within 120 days of award.