

Portable Ambient Particulate Sampler

1.0 Background

A Blanket Purchase-order Agreement (BPA) for a portable self-sufficient ambient particulate sampler, particulate sampler supplies, flow verification instrument, and particulate sampler services is being acquired to support the Environmental Protection Agency's mission of protecting human health and the environment. Particulate samplers are being purchased to work in unison with our existing equipment. The particulate samplers will be utilized for emergency responses and removal actions to assess site conditions.

2.0 Minimum Specifications and Requirements

The particulate sampler shall be:

- Portable (airline shippable), easily set-up, highly reliable, and fit into a case(s).
- Have the ability to be powered by cord (generator or wall outlet), or solar power and battery.
- The system shall include all accessories
- PM_{2.5} Federal Reference Method (FRM) and FRM "Portable Audit" Sampling Systems
- PM₁₀ Federal Reference Method (FRM)
- PM₁ Capable when configured with a PM₁ Sharp Cut Cyclone
- TSP Capable when configured with TSP inlet
- Easily reconfigurable for PM₁, PM_{2.5}, PM₁₀, or TSP
- EPA approved for speciation sampling
- Complies with applicable regulations of 40 CFR Parts 50, 53, and 58.
- Provide a data report on operations
- Provides scientifically sound and defensible data to protect human health and the environment

3.0 Calibration and Testing

Units shall be tested and ready for field deployment. Calibration documentation shall be included with each instrument.

4.0 Documentation and Drawings

Operator manual(s) shall be provided. Itemize equipment as some Offices may not require all options.

5.0 Warranty

The contractor shall provide its commercial warranty.

6.0 Delivery Date

The completed system shall be delivered no later than 60 days after receipt of orders.

7.0 Service and Calibration

After initial purchase, expendable supplies, yearly calibrator calibrations, additional equipment, and sampler repair/replacement maybe purchased for routine ambient air particulate matter sampler operation. When equipment is damaged, or needs to be replaced, or needs to be calibrated we would like to have it serviced under this BPA. Include costs for replacement parts, calibration costs, expendables, and service costs.

8.0 ITEM OF CONSIDERATION. PQ200 Ambient Fine Particulate Sampler or equal.

The PQ200 Ambient Fine Particulate Sampler that is capable of sampling for:

- PM_{2.5} Federal Reference Method (FRM) and FRM "Portable Audit" Sampling Systems
- PM₁₀ Federal Reference Method (FRM)
- PM₁ Capable when configured with a PM₁ Sharp Cut Cyclone
- TSP Capable when configured with TSP inlet
- Easily reconfigurable for PM₁, PM_{2.5}, PM₁₀, or TSP
- EPA approved for speciation sampling with the use of the dual cassette filter
- Complies with applicable regulations of 40 CFR Parts 50, 53, and 58.

9.0 SYSTEM CHARACTERISTICS. The identified ambient air particulate matter sampling system shall be portable, easily set-up and switchable for PM₁, PM_{2.5}, PM₁₀, TSP, and speciation sampling, highly reliable, and comply with all applicable regulations under 40 CFR Parts 50, 53, and 58. The sampler shall be a Federally Referenced or Designated for PM_{2.5}, PM₁₀, PM_C, TSP, and speciation sampling per 40 CFR Part 50. The system shall also have the ability to operate with AC or DC power, battery power, solar power, and provide a data report on operations.

10.0 OPERATIONAL CONCEPT. The ambient air particulate matter sampler will be used on field activities to acquire required particulate matter data to meet field objectives and data quality objectives in a timely manner.

11.0 ORGANIZATIONAL CONCEPT. USEPA contractors will be responsible for deployment, use, and care of the ambient air particulate matter samplers.

12.0 SUPPORT REQUIREMENTS. After initial purchase, expendable supplies, yearly calibrator calibrations, additional equipment, and sampler repair/replacement maybe purchased for routine ambient air particulate matter sampler operation.

