



STATE OF ALASKA
Department of Environmental Conservation
Division of Air Quality

Butte Air Monitoring Shelter
RFQ No. 18-602-23
Anchorage, Alaska

Date of Issue: July 6, 2023

PURPOSE

The State of Alaska, Department of Environmental Conservation, Division of Air Quality is soliciting quotes for a replacement air quality monitoring site shelter in Palmer, Alaska, under the Division's Air Monitoring & Quality Assurance (AMQA) Program.

The Procurement Officer for this document is:

Bryant Trujillo, Procurement Specialist 3
State of Alaska, Department of Administration
Office of Procurement and Property Management
Department of Environmental Conservation
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Item Description:

The Department of Environmental Conservation (DEC) has received grant funding for replacing the Butte air monitoring site shelter under the American Rescue Plan (ARP). This shelter houses EPA-required air monitoring equipment, and the heating, ventilation, and air conditioning (HVAC) system must be capable of maintaining internal climate-controlled conditions of 68°F to 76°F during typical Southcentral Alaska weather conditions, with summer high temperatures averaging 67°F and winter low temperatures averaging 13°F. This monitoring shelter will be equipped to house a minimum of two (2) semi-continuous particulate monitors inside and two (2) low-volume filter-based samplers on the roof. Four (4) "passthrough" ports will be located on the shelter, two (2) on the roof, and two (2) on the walls for sample collection inlets, wiring, and instrument exhausts. The shelter will have a lockable door to access the interior and a ladder or stairs for roof access. The roof will have a walking platform with appropriate handrails and electrical outlets. The vendor will ensure the interior and exterior of the shelter is well lit, and a breaker box and outlets will be present to power all necessary equipment and will be "connection ready" to a meter base. DEC will ensure the site is prepared for the delivery of the shelter, that power is present at the site and connected, and perform all installation of air monitoring equipment.

Specifications:

The shelter should meet the following technical specifications:

- Minimum finished interior dimensions 7 feet by 13 feet, maximum 8 feet by 20 feet with a minimum unobstructed interior ceiling height of greater than or equal to 6 feet 4 inches from wall to wall;
- Floors, walls, and ceiling should be wood, fiberglass, composite, or metal, and the floor should be covered with a slip and water-resistant, easy-to-clean flooring material;
- Floors, walls, and ceiling should be adequately insulated to prevent drafts and excessive heat loss;
- Should have an adequate grounding provision for the shelter structure if the frame, floor, or exterior covering is metal;
- Walls should have a light-colored (white, off-white, tan, etc.) non-dusting material covering the insulation as prefinished panels or coated with paint or another protectant;
- An exterior door, opening to the outside, with a minimum opening width from jamb to jamb of 32 inches with a lockable knob and deadbolt for shelter access;
- An electric 120- or 240-volt HVAC unit (Bard, Pentair, or similar), which, when coupled with the shelter insulation, should be able to maintain a stable 70°F internal temperature over an ambient temperature range of -25°F to +90°F;
- HVAC should have a digital thermostat located at least 6 feet away in an area with indirect airflow;
- The shelter should have, at minimum, a 100 amp, 120/240-volt alternating current (AC) load center;
- The load center should be wired to:

- Power the 120/240-volt HVAC;
 - Wired with sufficient interior light emitting diode (LED) lighting and at least one (1) roof light near the roof access point, with interior and exterior lights on separate switches;
 - Interior should have, at minimum, eight (8) 120-volt 15-amp duplex outlets, evenly spaced, and on at least four (4) separate breakers;
 - Roof should have, at minimum, four (4) 120-volt 15-amp weather-protected outlets on separate breakers; and
 - An access point and conduit or junction box, with a disconnect for power to be brought into the load center from the meter.
- A walking roof platform with handrails, mid-rail, and kickplate; platform and handrails should be constructed of metal and be corrosion resistant, with the platform being capable of supporting 400 lbs. of equipment continuously and up to three (3) persons intermittently;
 - Ladder or stairs to access the roof platform, with the first step/rung no higher than 12 inches above ground level;
 - Install two (2) 1.5-inch female pipe thread (FNPT) capped steel or aluminum ports on the roof at DEC-supplied locations for sample collection; ports should be sealed against leaks from melting snow/ice/rain;
 - Install two (2) 3-inch cord “passthrough” ports with plugs/caps on the sidewall; this may be aluminum or steel pipe, PVC, ABS, or other durable weather-resistant material;
 - Shelter must be equipped for placement on level ground, pads, or corner footings;
 - Shelter should have a bench at least 20 inches deep and greater than or equal to 36 inches high, covering at least 8 feet below the roof with 1.5-inch FNPT ports. The bench should be capable of supporting 125 lbs. at any portion; and
 - Exterior should be protected from the elements with paint, galvanizing, gel coat, or other finish to prevent deterioration or oxidation and presents a clean, professional appearance.

To DEC's satisfaction, the contractor shall provide the item and perform the one-year warranty/maintenance support included in the purchase. The Contractor shall be responsible for all communications regarding the progress of maintenance/services performed and shall discuss with the DEC any issues, recommendations, and decisions related to the contract. The Contractor 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: DECDAProcurement@alaska.gov.