



# Request for Quote

STATE OF RHODE ISLAND AND PROVIDENCE PLANTATIONS  
ONE CAPITOL HILL  
PROVIDENCE RI 02908

BUYER: McGurn, Cheryl A  
PHONE #: N/A

CREATION DATE : 09-MAY-16  
BID NUMBER: 7550592  
TITLE: INSTRUMENT SHELTERS FOR USE IN STUDY OF AIR POLLUTION LEVELS - DEM  
BID CLOSING DATE AND TIME:31-MAY-2016 11:30:00

**B**  
**I**  
**L**  
**L**  
**T**  
**O**  
DOA CONTROLLER  
ONE CAPITOL HILL, 4TH FLOOR  
SMITH ST  
PROVIDENCE, RI 02908  
US

**S**  
**H**  
**I**  
**P**  
**T**  
**O**  
DEM AIR LABORATORY  
C/O HEALTH DEPT LABORATORIES  
50 ORMS STREET  
PROVIDENCE, RI 02904  
US

Requisition Number: 1458927  
Note to Bidders: PER THE ATTACHED SPECIFICATIONS

Questions concerning this solicitation must be emailed and received by the Division of Purchases at [cheryl.mcgurn@purchasing.ri.gov](mailto:cheryl.mcgurn@purchasing.ri.gov) no later than May 26 @ 3:00 pm in a Microsoft Word attachment with the corresponding solicitation number. Questions, if any, and responses will be posted on the Division of Purchases website at [www.purchasing.ri.gov](http://www.purchasing.ri.gov).

Line	Description	Quantity	Unit	Unit Price	Total
1	INSTRUMENT SHELTERS FOR USE IN STUDY OF AIR POLLUTION LEVELS IN THE VICINITY OF RTE 95 IN PROVIDENCE - PER THE ATTACHED SPECIFICATIONS	4.00	Each		

Delivery: \_\_\_\_\_

Terms of Payment: \_\_\_\_\_

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer

## Purchase of Instrument Shelters

### Bid requirements

The State of RI Department of Environmental Management, Office of Air Resources will be purchasing four instrument shelters for use in a study of air pollution levels in the vicinity of Route 95 as it passes through Providence. These will be stand-alone units, roughly the size of a home refrigerator, and each capable of housing three air-monitoring instruments: a Teledyne-API model 633 aethalometer, a TSI model 3783 environmental particle counter, and a Xonteck model 910 VOCs sampler, plus the 6-liter canister that it will sample into. The vendor must build these shelters (without the instrumentation) and deliver them to the state Health Laboratory in Providence, at 50 Orms St.

The instrument shelters will be constructed of aluminum, with weather-resistant finish, and two doors at opposite sides of the enclosure, for ease of access to the rear panels of the instruments. The inside dimensions of the instrument compartment of the shelter will be 54 inches height, 36 inches width, and 32 inches depth. Inside the shelter, there will be a standard 19-inch instrument rack, extending the height of the shelter interior (54 inches) and holding two 24-inch depth full-extension sliding shelves. Below the main compartment for the instruments, there will be a separate compartment for pumps. The pump compartment should have a height of about 16 inches, and an exhaust ventilation fan that is controlled by a thermostat located within the pump compartment. A temperature setting of around 15 deg C is expected, with the ventilation fan coming on whenever the temperature exceeds that value. There should be a power outlet for the pumps inside the pump compartment. There must be a passageway from the pump compartment to the instrument compartment, to allow ¼ inch and 3/8 inch tubing to run from the pump area to the instruments. Bulkhead fittings are not required.

The shelters will be mounted on legs of about 12 inches height, with feet designed for attachment to a wooden base, to secure them under high-wind conditions. The doors must have stainless-steel spring-loaded door stops, to prevent the doors from blowing around in the wind while the doors are open.

The shelters will have thermal insulation of R11 or better (wall thickness approximately 2 inches), and be climate-controlled with both air conditioning and electrical resistance heating. Temperature stability inside the shelter is critically important, and for this reason, the A/C and heating must be provided by a unit functionally identical to those used in existing instrument shelters in the RI air-monitoring network (Pentair-McLean unit CR29-0216-G047P). The pump compartment will have a louvered air-intake port with insect screening.

Power will be taken into the shelter through a panel with a 30-Amp main breaker, single-phase, and a 15-foot power cord with a 30-Amp plug (Twist Lock NEMA L5-30P). The panel will contain two circuit breakers for power usage within the shelter, one for the HVAC unit and one that supplies the instruments through a 15-Amp surge-protected power strip. A separate outlet with two receptacles will be mounted in the pump compartment, as noted above.

On one side of the shelter, there will be a 6 inch height by 12 inch width bulkhead panel, through which instrument intake tubing can be sent. The panel should be aluminum, with strength sufficient to support ¼ inch probes that may extend outwards for as much as 24 inches. It should be located 12 inches below the interior ceiling of the shelter. On the other side of the shelter, located above the HVAC unit, there should be a second, smaller bulkhead panel, for potential use at a later time to bring in wires

from meteorological sensors. There will be meteorological monitoring sensors (wind speed and wind direction) mounted a few feet above the roof of the shelter, and the shelter must be constructed with attachment points for a mast (1-5/8 inch diameter) along one side of the shelter. Above the shelter, the cross-arm for attachment of the met sensors will attach to the mast.

---

**DESCRIPTION: Instrument Shelters**

<b>Quantity:</b>	<b>One (4) – Specification bid requirements attached.</b>	<b>Vendor Indicate Compliance Yes/No</b>
<b>Department:</b>	<b>Dem – Bid 7550592</b>	
<b>Division:</b>	<b>c/o Health Laboratory Providence, RI 02904</b>	
<b>RI-FANS Requisition Number:</b>	<b>#1458927</b>	
	<b><u>Specification Form: Must be submitted with bid response to indicate compliance with specifications.</u></b>	

<b>STANDARD FEATURES Proposals must meet or exceed specifications herein.</b>	<b>FOR VENDOR USE ONLY TO INDICATE COMPLIANCE</b>	
	<b>↓ Yes/No</b>	<b>↓ Specify Alternative (if responding no) ↓</b>
<b>TO INDICATE COMPLIANCE</b>		
Constructed of aluminum, with weather-resistant finish		
Two doors at opposite sides of the enclosure		
Dimensions of the instrument compartment of the shelter 54 inches height, 36 inches width, and 32 inches depth.		
Inside the shelter 19 inch instrument rack, extending the height of the shelter interior (54 inches) and holding two 24 inch depth full-extension sliding shelves.		
Below main compartment for the instruments: separate compartment for pumps		
Pump compartment height of about 16 inches.		
Exhaust ventilation fan controlled by a thermostat located within the pump compartment.		
Temperature setting of around 15 deg c with ventilation fan coming on whenever the temperature exceeds that value.		
Power outlet for the pumps inside the pump compartment.		
Passageway from the pump compartment to the instrument compartment to allow ¼ inch and 3/8 inch tubing to run from the pump area to the instruments. Bulkhead fittings are not required		
Shelters mounted on legs of about 12 inches height, feet designed for attachment to a wooden base for securing under high-wind conditions.		
Stainless-steel spring loaded door stops.		

<b>RI-FANS Requisition Number:</b>	<b>#1458927</b>
	<b><u>Specification Form: Must be submitted with bid response to indicate compliance with specifications.</u></b>

<b>STANDARD FEATURES</b> Proposals must meet or exceed specifications herein.	<b>FOR VENDOR USE ONLY</b> <b>TO INDICATE COMPLIANCE</b>	
	↓ Yes/No	↓ Specify Alternative (if responding no)
TO INDICATE COMPLIANCE		
Thermal insulation of R11 or better. Climate-controlled with both air conditioning and electrical resistance heating.		
Temperature stability inside shelter is critical. A/C and heating must be provided by a unit functionally identical to those used in existing instrument shelters in the RI air-monitoring network (Pentair-McLean unit CR29-0216-G047P).		
Pump compartment louvered air-intake port with insect screening.		
Panel with a 30-amp main breaker, single phase and a 15-foot power cord with a 30-Amp plug (Twist lock Nema L5-30P).		
Two circuit breakers for power usage within the shelter, one for the HVAC unit and one that supplies the instruments through a 15-Amp surge protected power strip. Separate outlet with two receptacles will be mounted in the pump compartment, as noted above.		
One side of shelter, will be a 6 inch height by 12 inch width bulkhead panel, through which instrument intake tubing can be sent.		
Panel should be aluminum, with strength sufficient to support ¼ inch probes that may extend outwards for as much as 24 inches.		
Located 12 inches below the interior ceiling of the shelter.		
On the opposite side of the shelter, located above the HVAC unit, there should be a second, smaller bulkhead panel, for potential use at a later time to bring in wires from meteorological sensors.		
Meteorological monitoring sensors (wind speed and wind direction) mounted a few feet above the roof of the shelter.		



**Contract Terms and Conditions**

**Table of Contents**

Terms and Conditions.....VI  
    BID STANDARD TERMS AND CONDITIONS .....VI  
    TERMS AND CONDITIONS FOR THIS BID .....VI  
    RIVIP INFO - BID SUBMISSION REQUIREMENTS .....VI  
    DELIVERY PER AGENCY .....VI  
    VENDOR SPECIFICATIONS .....VI

**Terms and Conditions**

**BID STANDARD TERMS AND CONDITIONS**

**TERMS AND CONDITIONS FOR THIS BID**

**RIVIP INFO - BID SUBMISSION REQUIREMENTS**

It is the Vendor's responsibility to check and download any and all addenda from the RIVIP. This offer may not be considered unless a signed RIVIP generated Bidder Certification Cover Form is attached and the Unit Price column is completed. The signed Certification Cover Form must be attached to the front of the offer. When delivering offers in person to One Capitol Hill, vendors are advised to allow at least one hour additional time for clearance through security checkpoints.

MAILING ADDRESS FOR BID PROPOSALS ISSUED BY THE STATE OF RHODE ISLAND,  
DIVISION OF PURCHASES

All Bid Proposals must be submitted by mail or hand delivered to:

- State of Rhode Island
- Department of Administration
- Division of Purchases, Second floor
- One Capitol Hill
- Providence, RI 02908-5855

**DIVESTITURE OF INVESTMENTS IN IRAN REQUIREMENT:**

No vendor engaged in investment activities in Iran as described in R.I. Gen. Laws §37-2.5-2(b) may submit a bid proposal to, or renew a contract with, the Division of Purchases. Each vendor submitting a bid proposal or entering into a renewal of a contract is required to certify that the vendor does not appear on the list maintained by the General Treasurer pursuant to R.I. Gen. Laws §37-2.5-3.

**DELIVERY PER AGENCY**

DELIVERY OF GOODS OR SERVICES AS REQUESTED BY AGENCY.

**VENDOR SPECIFICATIONS**

ALL VENDORS MUST INCLUDE SPECIFICATIONS WITH BID PROPOSAL (EVEN THOSE BIDDING BRAND SPECIFIED). FAILURE TO SUBMIT SPECIFICATIONS WITH BID PROPOSAL MAY RESULT IN DISQUALIFICATION OF BID. ITEMS IN CATALOGS MUST BE CLEARLY MARKED AND PAGES TABBED.