Request for Quote

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

CREATION DATE : 11-MAY-12
BID NUMBER: 7449721
TITLE: TRACE LEVEL S02 ANALYZER - DEM

BID CLOSING DATE AND TIME:13-JUN-2012 10:15:00

BUYER: Gill Raymond E Jr
PHONE #: 401-574-8466

BILL TO
DOA CONTROLLER
ONE CAPITOL HILL, 4TH FLOOR
SMITH ST
PROVIDENCE, RI 02908
US

SHIP TO
DEM AIR LABORATORY
C/O HEALTH DEPT LABORATORIES
50 ORMS STREET
PROVIDENCE, RI 02904
US

Requistion Number:

Line	Description	Quantity	Unit	Unit Price	Total
1	THIS IS AN FOB DELIVERED RFQ - BIDDERS SHOULD SUBMIT A COPY OF THE MANUFACTURER'S SPECIFICATIONS WITH THEIR BID TOTAL TRADE IN PRICE FOR ALL EQUIPMENT LISTED ON THE ATTACHED LIST OF TRADE IN EQUIPMENT WILL BE NOTED ON A SEPARATE LINE ON THE BID PRICING PAGE TRADE IN PRICING WILL BE CONSIDERED IN THE AWARDING OF THE BID TRACE-LEVEL SO2 ANALYZER - ITEM #43i-TLE-AZSAA	2.00	Each		
2	ZERO-SPAN VALVES	2.00	Each		
3	TRACE-LEVEL NOX ANALYZER - PART #42iTL-ANMSPAA	3.00	Each		
4	PERMA-PURE DRYER	3.00	Each		
5	TRACE-LEVEL CO ANALYZER - PART #48iTLE-ACPAA	1.00	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

State of Rhode Island
Department of Administration / Division of Purchases
One Capitol Hill, Providence, Rhode Island 02908-5855
Tel: (401) 574-8100 Fax: (401) 574-8387

RFQ 7449721 RIDEM TRACE LEVEL SO2 ANALYZER

Bid specifications for the purchase of gas analyzers by RI DEM Air Resources

Two sulfur dioxide (SO2) analyzers are to be purchased. The requirements for these instruments are as follows:

The instruments must be designed for trace-level measurement, with linear response in the zero to 100 ppb range. The instrument must operate on the principle of pulsed-UV fluorescence, and contain a cartridge, or, "kicker" for removal of interfering hydrocarbons. Linearity should be sufficient for the instrument to give a response within 1 ppb of the "true" value, over the 0 to 100 ppb range. The minimum detection limit of the instrument should be at 0.1 ppb

The instruments must be configured for auto-zeroing and auto-calibrating at user-designated intervals, such as once daily, and thus contain internal valves for zero and span gases to be introduced into the instrument, and internal software suitable for the tasks.

The instruments must be configured, as delivered, so as to be interchangeable with the existing SO2 analyzers in the Rhode Island air monitoring network. As such, as delivered, they must be designed for communication within an Ethernet network, using the MODBUS protocol, and in addition, be capable of data transmission via daisy-chained serial ports. More information is available on request.

Three nitrogen oxide (NOx) analyzers are to be purchased. The requirements for these instruments are as follows:

The instrument must be designed for trace-level measurement, with linear response in the zero to 100 ppb range. The instrument must operate on the principle of chemiluminescence, via the reaction of nitric oxide with ozone, and contain an internal ozone generator and a converter for the reduction of NO2 to NO. Linearity should be sufficient for the instrument to give a response within 1 ppb of the "true" value, over the 0 to 100 ppb range. The minimum detection limit of the instrument should be at 0.05 ppb

The instrument must contain an internal permeation drier for the air stream feeding the ozone generator.

The instrument must include in the analytical cycle an auto-zeroing step, in which the ozone and sample air streams are mixed in a pre-reactor upstream of the reaction chamber, to minimize zero drift, and reduce interferences from olefins.

As with the SO2 analyzers, the instrument must be configured, as delivered, to be interchangeable with existing NOx analyzers in the Rhode Island air monitoring network. As such, they must be designed, as delivered, for communication within an Ethernet network, using the MODBUS protocol, and in addition, be capable of data transmission via daisy-chained serial ports. More information is available on request.

One carbon monoxide (CO) analyzer will be purchased. The requirements for this instrument is as follows:

The instrument must be designed for trace-level measurement, with linear response in the zero to 10 ppm range. The instrument must operate on the principle of non-dispersive infrared absorption, and gas-filter correlation The minimum detectable concentration should be 0.04 ppm, and linearity at 1% of full scale (+/- 0.1 ppm).

The instrument's software must contain an auto-zeroing step that can be executed at a user-designated interval such as once or twice daily. In this step, the air sample should be drawn through a CO scrubber containing Carulite 300, or an equivalent material, with the instrument software using this step to re-set the instrument zero.

The instrument must contain a permeation dryer to eliminate interferences from water vapor.

As with the SO2 and NOx analyzers, the instrument must be configured, as delivered, to be interchangeable with existing CO analyzers in the Rhode Island air monitoring network. As such, they must be designed, as delivered, for communication within an Ethernet network, using the MODBUS protocol, and in addition, be capable of data transmission via daisy-chained serial ports. More information is available on request.

Contract Terms and Conditions

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BID STANDARD TERMS AND CONDITIONS

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AWARD

THE STATE, AT ITS SOLE DISCRETION, SHALL RESERVE THE RIGHT TO MAKE ONE OR MULTIPLE AWARDS FOR THIS REQUIREMENT AND/OR TO REJECT ANY OR ALL BIDS

RIVIP INFO - BID SUBMISSION REQUIREMENTS

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