



STATE OF CALIFORNIA
Department of General Services - Office of Procurement

Purchase Order No. Rev. Date
62091 6/30/2008

PURCHASE ORDER

Form GSOP I-PIN (04/98)

Supplier No.	Solicitation No.	Delivery Date	FOB Point	Invoice Terms
677240	56866	180 Days ARO	Destination	

ANALYTICAL PROCESS SYSTEMS 1771 HARMON ROAD AUBURN HILLS, MI 48326 Attn: BRIAN KUNDINGER Phone: 248-393-0700	<i>S</i> AIR RESOURCES BOARD <i>h T</i> 9530 TELSTAR AVE, ANNEX 4 <i>i o</i> EL MONTE CA 91731 <i>p</i> Attn: MICHAEL O'CONNOR	<i>C</i> AIR RESOURCES BOARD B-04 <i>h T</i> PO BOX 1436 <i>r o</i> ATT:ACCNTING 916-327-0631 <i>g e</i> SACRAMENTO CA 95812-1436	
	<i>Agency Billing</i> 64900	<i>Agency Purchase Estimate</i> PE079002	<i>Purchase Estimate</i> 67158 <i>Revision</i> 0
	<i>Agency Contact</i> LYNN PILE	<i>Phone</i> 916-327-5754	<i>Date Received</i>

Item No.	Quantity	Unit	Commodity Code	Description	Unit Price	Extension
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THE GENERAL PROVISIONS FOR NON-IT COMMODITIES ARE HEREBY INCORPORATED BY REFERENCE. THESE GENERAL PROVISIONS CAN BE OBTAINED BY PHONING (916) 375-4400 OR BY ACCESSING OUR WEBSITE AT:
www.documents.dgs.ca.gov/pd/modellang/GPnonIT0407.pdf

THE FOLLOWING INFORMATION IS PROVIDED FOR AGENCY USE ONLY:

PRIME CONTRACTOR: NS

FISCAL YEAR: 2007/2008

1	2	EA	6640-156-0006-2	PROCESSOR SAMPLE (AS DESCRIBED) Sample Collection System for Alcohol Impingers and Aldehyde per the attached bid specifications #6640-08BS-004.	70,000.0000	140,000.00
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Brand: ANALYTICAL PROCESS SYSTEMS
 Model: SCS-400AM

Total Value: 140,000.00

FOR THE PURPOSE OF THIS AWARD, ONLY F.O.B. Destination will be accepted.

This Purchase order has been registered into the state contact and procurement registration system (<https://www.scprs.dgs.ca.gov/>). The registration number is: 39000708323321.

NOTE: Attachments accompany this PO as follow:

SPECIFICATIONS
 ATTACHED #6640-08BS-004 OF TWO (2) PAGES DATED MAY 6, 2008

PALLET SPECIFICATIONS
 ATTACHED MISCELLANEOUS REQUIREMENTS OF TWO (2) PAGES

Sales and/or use tax to be extra unless noted above

Buyer EVONNE ROGERS	Phone 916-375-4346	BOC Number
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PURCHASE ORDER CONTINUATION

Form GSOP 2-PIN (04/98)

<i>Purchase Order No.</i> 62091	<i>Revision</i>	<i>Date</i> 6/30/2008	<i>Supplier No.</i> 677240	<i>Supplier Name</i> ANALYTICAL PROCESS SYSTEMS
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<i>Item No.</i>	<i>Quantity</i>	<i>Unit</i>	<i>Commodity Code</i>	<i>Description</i>	<i>Unit Price</i>	<i>Extension</i>
<p>This purchase order is being awarded on July 18th, 2008 pursuant to Government Code Section 13332.17. Any encumbrances made pursuant to this purchase order shall be construed to have been made on the last day of the preceding fiscal year.</p> <p>CHANGE ORDERS:</p> <p>Any Purchase Order resulting from this bid may be amended, modified, or terminated at any time by mutual agreement of the parties in writing. Change orders amending, modifying or terminating the Purchase Order, including any modifications of the compensation payable, may be issued only by the State Procurement Officer. All such change orders shall be in writing and issued only upon written concurrence of the supplier. Termination, as that term is used in this section, does not include termination for default of the supplier.</p>						

STATE OF CALIFORNIA

Bid Specification Collection System, Sample

6640-08BS-004



1.0 Scope

This document describes the minimum technical requirements and minimum performance specifications for a Sample Collection System, Alcohol Impingers and Aldehyde Cartridges (Impinger Cart), which will be used for evaporative emissions testing at the Air Resources Board (ARB) in El Monte, California.

2.0 Requirements

This shall be a fully functioning and operational ("turnkey" operation) Impinger Cart system. The system shall at minimum include the following:

01. Four phase sampling for alcohol and aldehyde.
02. Four (4) primary and four (4) secondary glass impingers for alcohol sampling.
03. Four (4) 2,4 dinitrophenylhydrazine (DNPH) cartridges for aldehyde sampling.
04. Two (2) primary and two (2) secondary glass impingers for ambient alcohol sampling.
05. One (1) 2,4 dinitrophenylhydrazine (DNPH) cartridge for ambient aldehyde sampling
06. Two (2), temperature controllable heated sample lines (235°F) – one for alcohol sampling and one for aldehyde sampling – each heated sample line will have a length of 20 feet.
07. One (1) unheated sample line 20 feet long for ambient sampling.
08. Sample pump with two heads – one for alcohol sampling and one for aldehyde sampling
09. Four (4) mass flow controllers capable of 5 SLPM flow for sample and ambient flow control
10. Mass flow controller minimum performance requirements: Accuracy 1% of full scale; Repeatability 0.2% of full scale.
11. A sample bypass for stabilizing flow before sampling.
12. An insulated inlet sample manifold with a check valve.
13. A check valve for inlet ambient sample.
14. A solenoid valve on sample and ambient outlet sample lines.
15. Rack mounted refrigerated bath capable of maintaining impinger temperatures at 34°F +/- 1°F
16. Leak check system for detecting leaks in the sample lines, impingers, cartridges, etc.
17. Microprocessor controller with software capable of calibration, leak check, sample collection, idle, bypass, purge, error detection functions.
18. Cabinet rack that fully encloses Impinger Cart system with hinged, removable doors. The cabinet rack will be supported by heavy-duty swivel type caster wheels with retractable locks for mobility.
19. All electrical components shall be Underwriters Laboratory certified.
20. Electrical power requirement: 120 VAC, 60 Hz, maximum 20 Amp.

3.0 Materials and Workmanship

The design and the fabrication of the Impinger Cart shall be consistent with good engineering practice, and shall be of good laboratory quality and workmanship. Wiring and plumbing shall be routed and secured in an orderly and logical fashion to facilitate maintenance and repairs.

All fittings and connectors shall be of good quality and, with the exception of cable ties and lacing, reusable. All tubing, valves, quick disconnects, and pump heads shall be made of 316L grade stainless steel, high purity Perfluoroalkoxy (PFA) Teflon, or other material impervious to the corrosive nature of the sample gases and shall not retain pollutants on the internal walls. All stainless steel tubing shall have smooth radius bends so that flow will not be restricted due to bends. All welded seams and connections shall be free of dross to prevent flow restriction.

MISCELLANEOUS REQUIREMENTS

I. Bidder Qualifications

The bidder must be able to demonstrate a history and expertise in the design and fabrication of Impinger Cart technology for automotive emissions testing. If bidder has not previously supplied an Impinger Cart to the ARB, the names and contact information of three (3) or more users of bidder's Impinger Cart must be provided as references. The state reserves the right to require the bidder to demonstrate the ability to meet these requirements on a bidder's existing, production-grade Impinger Cart prior to accepting bidder's bid proposal.

II. Documentation and Drawings

The bidder shall supply the following with the samplers: Two (2) copies of the flow schematic and two (2) copies of the wiring schematic diagram. All valves, meters, controllers, switches, relays, etc. shall be identified and numbered on these drawings. These reference numbers shall be placed on or adjacent to the actual component in the Impinger Cart.

In addition, two (2) copies of the instruction manuals, and two (2) copies of the service manuals specific to the Impinger Cart shall be provided. These manuals shall address the following:

01. Performance specifications, installation, operation, component calibration procedures, and preventive maintenance of the equipment
02. Service parts lists, identifying major components by manufacturer's part number and vendor/bidder's part number
03. Service manuals for individual major components

III. Start-Up

The bidder shall provide start-up services for the Impinger Cart.

IV. Acceptance

Subsequent to Start-Up, ARB will perform acceptance testing of the Impinger Cart. ARB will perform a complete series of functional tests on the Impinger Cart to assure proper operation in accordance with specifications. Acceptance will not be considered successfully achieved until ARB is satisfied with acceptance testing results AND all documents and drawings have been received by ARB.

The Impinger Cart will be considered accepted when the following performance criteria are achieved:

01. Mass flow controller: Accuracy 1% of full scale; Repeatability 0.2% of full scale
02. Microprocessor controller software performance that includes:
 - a. Calibration of the sampling system
 - b. Leak check (i.e., check system for detecting leaks in the sample lines, impingers, cartridges, etc.)
 - c. Sample collection in the idle, bypass, and purge modes
 - d. Error detection functions.
03. Refrigerated bath maintaining impinger temperature at 34°F +/- 1°F
04. Heated sample lines controlling temperature to a minimum of 235°F

V. Warranty

01. The successful bidder shall provide a one-year parts and labor warranty on the Impinger Cart. This warranty period will begin at the time ARB approves full payment to the bidder. This warranty shall include on-site service within two (2) business days of problem notification if ARB determines that service is required.
02. The successful bidder shall have replacement parts available at fair market rates for a minimum of five (5) years after acceptance. The successful bidder shall have replacement parts available for immediate installation (within two business days) either by stocking the parts or by providing a part on loan while failed part is being serviced.