

## State of Maine Procurement Justification Form

This form must accompany all contract requests and sole source requisitions (RQS) over \$5,000 submitted to the Division of Procurement Services.

INSTRUCTIONS: Please provide the requested information in the white spaces below. See the guidance document posted with this form on the Division of Procurement Services website (Forms page) for additional instructions.

### PART I: OVERVIEW

Department Office/Division/Program:		DEP, Division of Air Quality Assessment, Lab and QA Section	
Department Contract Administrator or Grant Coordinator:		Andrea Galasyn	
(If applicable) Department Reference #:			
Amount: (Contract/Amendment/Grant)	\$ 58,448.36	Advantage CT / RQS #:	<b>06A 20200923*0345</b>
CONTRACT	Proposed Start Date:	Proposed End Date:	
AMENDMENT	Original Start Date:	Effective Date:	
	Previous End Date:	New End Date:	
GRANT	Project Start Date:	Grant Start Date:	
	Project End Date:	Grant End Date:	
Vendor/Provider/Grantee Name, City, State:		Entech Instruments, Inc Simi Valley, CA	
Brief Description of Goods/Services/Grant:		<p>The Entech 7200 preconcentrator is a concentration instrument used to focus samples of air for volatile organic compound (VOC) analysis. The unit uses a system of heating and cooling across three module traps to prepare the air sample for injection onto a gas chromatograph/mass spectrometer (GCMS).</p> <p>The Entech 7016D canister autosampler is a device required for automated sample analysis of volatile organic compounds (VOCs). The unit connects to the Preconcentration system for automated sample injection.</p>	

### PART II: JUSTIFICATION FOR VENDOR SELECTION

Mark an "X" before the justification(s) that applies to this request. (Check all that apply.)

	A. Competitive Process		G. Grant
	B. Amendment		H. State Statute/Agency Directed
<b>x</b>	C. Single Source/Unique Vendor		I. Federal Agency Directed
	D. Proprietary/Copyright/Patents		J. Willing and Qualified
	E. Emergency		K. Client Choice
	F. University Cooperative Project		L. Other Authorization

### PART III: SUPPLEMENTAL INFORMATION

Please respond to ALL of the following:

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## PART III: SUPPLEMENTAL INFORMATION

**1. Provide a more detailed description and explain the need for the goods, services or grant to supplement the response in Part I.**

The ME DEP Air Laboratory provides ambient air analysis for volatile organic compounds (VOCs) using a gas chromatograph/mass spectrometer (GCMS) by EPA Method TO-15 in support of the Monitoring Sections Hazardous Air Pollutant (HAPs) network. When time and resources allow, the laboratory also participates in special studies such as the ecomaine Pharmaceutical Study in 2013, Long Island Sound Tropospheric Ozone Study (LISTOS) in 2017 and 2018, and currently the partnership with the cities of South Portland and Portland to help determine the air quality throughout the cities.

To load a sample onto the GCMS for analysis, a known volume of air is collected from the sampling canister onto a multi-sorbent, multistep concentrator. After the concentration and drying steps are completed, the VOCs are thermally desorbed, entrained in a carrier gas steam, and carried onto a gas chromatographic column for separation. The ME DEP Air Laboratory currently uses both the Entech autosampler and Preconcentrator to automate this process. Recently, a second GCMS was purchased in order to expand the labs analysis capacity. The new system will also need an autosampler and Preconcentrator to perform air sampling analysis.

**2. Provide a brief justification for the selected vendor to supplement the response in Part II.**

The laboratory already operates and maintains multiple Entech Instrument systems. We are purchasing from Entech because we have been happy with technical assistance, technical service, and products they have provided in the past. The two units were designed to work together and since laboratory staff is currently operating other Entech Instrument systems, purchasing another Entech unit will reduce disruption of laboratory operations.

**3. Explain how the negotiated costs or rates are fair and reasonable; or how the funding was allocated to grantee.**

Laboratory staff had previously considered a more expensive concentration system that does not use liquid nitrogen for cryogenic cooling. However, due to our low-level work (as low as 0.02 parts per billion) and our expanded list of target VOCs for special projects, that system was unacceptable. The Entech 7200 preconcentrator meets all our needs and is more reasonably priced. Entech is also offering an 18% discount off list price. This saves over \$10,500 off from the purchase price.

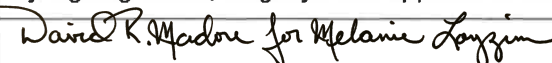
**4. Describe the plan for future competition for the goods or services.**

By purchasing the canister autosampler and preconcentration system for the laboratories new GCMS, the lab will be able to expand our capacity for analysis of ambient air samples by EPA Method TO-15 for the monitoring network as well as special studies. Instrumentation has a natural lifetime but with proper use and maintenance the equipment will last for years before needing to be upgraded. Each upgrade provides a potential to foster competition.

## PART IV: APPROVALS

**Signature of requesting  
Department's Commissioner  
(or designee):**

*By signing below, I signify that I approve of this procurement request.*



**Printed Name:**

David R. Madore for Melanie Loyzim

**Date:**

Sep 28, 2020

**State of Maine  
Procurement Justification Form**

<b>Signature of DAFS Procurement Official:</b>	<small>DocuSigned by:</small> <i>William Allen</i> <small>2D5B6E39F57E44A...</small>		
	<b>Printed Name:</b>	William Allen	<b>Date:</b>

NOI 1020200945 10/02/2020 - 10/08/2020