

05 AUG 21 10:09

# STATE PROCUREMENT OFFICE NOTICE & REQUEST FOR SOLE SOURCE

- 1. TO: Chief Procurement Officer
- 2. FROM: DOH/SLD/EHASB/Chemical Terrorism Response Laboratory  
Department/Division/Agency

Pursuant to §103D-306, HRS, and Subchapter 9, Chapter 3-122, HAR, the Department requests sole source approval to purchase the following:

3. Description of goods, services, or construction:

The Agilent 6890N Network Gas Chromatography (GC) System is a high performance analytical instrument equipped with two fully integrated, high sensitivity detectors - an Enhanced-Flame Photometric (FP) detector and a Micro-Electron Capture (EC) detector, dual injectors, two capillary inlets with electronic pneumatics control, and a GC Chemstation computer system with requisite operating software and interface hardware. The 6890N network GC system incorporates Ethernet technology as a standard feature, enabling extended laboratory connections and centralized data handling.

This instrument system provides the high sensitivity we need as a Chemical Terrorism Response Laboratory for detecting small amounts of phosphorus-, sulfur-, and chlorine-containing chemical warfare agents or hazardous pesticides and their metabolites in clinical specimens and environmental samples.

4. Vendor Name: Agilent Technologies Address: 2850 Centerville Road BU3-2 Wilmington, DE 19808-1610	5. Price: <u>\$67,182.17</u>
6. Term of Contract: (mm/dd/yyyy) From: <u>one time purchase</u>	7. Prior Sole Source Ref No.

8. Feature: The good, service, or construction has the following unique features, characteristics, or capabilities:  
 The Agilent 6890N Network GC System Custom has a(an)

- 1). dual wavelength, high sensitivity flame photometric detector (Enhanced-FPD) for simultaneously detecting very low levels of phosphorus- and sulfur-containing compounds in a single run.
- 2). high throughput electron capture detector (Micro-ECD) for detecting chlorine-containing chemicals has greater sensitivity and linearity compared to other vendors' EC detectors.
- 3). Certified Network Data System for Chemical Quality Assurance/Quality Control (QA/QC) enabling efficient data handling from remote sites and reporting to state and federal Programs and Agencies.
- 4). large-volume automatic liquid sampler that eliminates sample concentration steps.
- 5). electronic pneumatic control for maintaining pressure and flow setpoints.

9. Essential features. How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work:

Agilent Technologies service personnel are located in Hawaii which will expedite instrument servicing and reduce downtime.

The Agilent FPD and ECD are more sensitive than other manufacturers' detectors. See the comparison in section 11.

Also, see ATTACHMENT

11. Alternate source. The following other possible sources for the good, service, or construction were investigated but do not meet our needs because:

PerkinElmer and Shimadzu FPD's do not have the low detection limits needed for the desired specific detection in complex matrices.

Varian does not offer an FPD as part of their GC package.

See ATTACHMENT TWO for other vendors' FPD Specifications in comparison to the Agilent 6890N GC System FPD.

12. Direct any inquiries to:

Department: EHASB-CTRL, SLD

Contact Name/Title: Gerald Pitz, Chemist

13 Phone Number:

453-6749

Fax Number:

453-6685

Expenditure may be processed with a purchase order:  Yes  No If no, a contract must be executed and funds certified.

Agency shall ensure adherence to applicable administrative and statutory requirements.

14. *I certify that the information provided above is to the best of my knowledge, true, correct and that the goods, services, or construction are available through only one source.*



Department Head

AUG 14 2006

Date

Reserved for SPO Use Only

15 Date Notice Posted: 08/31/06

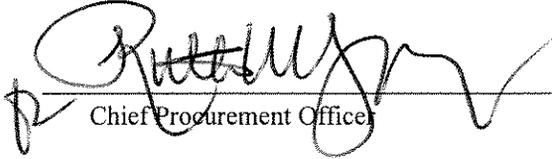
Submit written objections to this intent to issue a sole source contract within seven calendar days or as otherwise allowed from the above posted date to:

Chief Procurement Officer  
 State Procurement Office  
 P.O. Box 119  
 Honolulu, Hawaii 96810-0119

16. Chief Procurement Officer's comments:

This approval is based on the DOH's representation that the Agilent 6890N Network Gas Chromatography system contains unique features not found on other manufacturer's equipment and is necessary to perform their functions for the State.

17.  APPROVED  DISAPPROVED

  
\_\_\_\_\_  
Chief Procurement Officer

9/7/05  
\_\_\_\_\_  
Date

SOLE SOURCE REQUEST: Agilent 6890N Network GC System

ATTACHMENT ONE:

**9. Essential Features. How the unique features, characteristics, or capabilities are essential for the Chemical Terrorism Response Laboratory to accomplish it's work.**

1. A dual wavelength, high sensitivity flame photometric detector (Enhanced-FPD) reduces sample analysis time and cost because of its ability to simultaneously detect very low levels of phosphorus- and sulfur-containing compounds in a single run.
2. The high throughput electron capture detector (Micro-ECD) has the requisite enhanced sensitivity and linearity we need for detecting chlorine-containing chemicals compared to other vendors' EC detectors.
3. The Certified Network Data System for Chemical Quality Assurance/Quality Control (QA/QC) will allow us to process laboratory data off site enabling increased usage of the instrument (i.e., more analyses per day) and more efficient reporting to state and federal Programs and Agencies.
4. The large-volume automatic liquid sampler will significantly reduce sample run times by eliminating tedious sample concentration steps.
5. The electronic pneumatic control will maintain constant pressure and flow setpoints from run to run, thereby providing excellent retention time reproducibility.

**SOLE SOURCE REQUEST: Agilent 6890N Network GC System**

**ATTACHMENT TWO**

**11. Alternate Source. The following other possible sources for the good, service or construction were investigated but did not meet our needs because**

Data from the Manufacturer specifications for minimum detection:

PerkinElmer GC Clarus 500: 1000 fgP/s and 10.0 pgS/s for FPD

Shimadzu GC-2014: 400 fgP/s and 4.0 pgS/s for FPD

Agilent GC 6890N: 60 fgP/s and 3.6 pgS/s for FPD

- Agilent Enhanced-FPD is the most sensitive

PerkinElmer GC Clarus 500: 0.05 pg for ECD

Shimadzu GC-2014: 0.1 pg/s for ECD

Agilent GC 6890N: 0.008 pg/s for ECD

- Agilent Mirco-ECD is the most sensitive