



**FINANCE DEPARTMENT
PURCHASING DIVISION**

BID SPECIFICATIONS

PRODUCT PURCHASE CONTRACT FOR

INDUCTIVELY COUPLED PLASMA – MASS SPECTROMETRY (ICP-MS)

BID FILE NUMBER: 3473

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BUYER: Laura Rapp
PHONE (559) 621-1169 or 621-1332
FAX: (559) 488-1069

SCHEDULED BID OPENING: June 16, 2016

NOTICE INVITING BIDS

Sealed bids will be received at the office of the Purchasing Manager of the City of Fresno for the following:

PRODUCT PURCHASE CONTRACT FOR INDUCTIVELY COUPLED PLASMA – MASS SPECTROMETRY (ICP-MS)

BID FILE NUMBER: 3473

all in accordance with the plans and/or specifications, delivered F.O.B. DESTINATION, FREIGHT PREPAID AND ALLOWED, to CITY OF FRESNO, VARIOUS SITES, FRESNO, CALIFORNIA 93706.

Specifications for these items can be downloaded at the City's online website at:

<http://www.fresno.gov>. For Business (to the right of the screen), Bid Opportunities

Bids will not be accepted Online or via Fax.

Bid Proposal forms, Instructions to Bidders and copies of the plans and/or specifications can also be obtained at the Office of the Purchasing Manager.

Bid Proposals must be filed with the Purchasing Manager prior to the bid opening at 3 p.m. on Thursday, June 16, 2016, when the bids will be publicly opened and recorded.

All proposals must be made on the Bid Proposal Form provided by the Purchasing Manager and must be accompanied by a Bid Deposit in the amount of **one thousand dollars (\$1,000)** in the form of a certified cashier's check, an irrevocable letter of credit, or a certificate of deposit or a bidder's bond executed by a corporate surety, admitted by the California Insurance Commissioner to do business in California, payable and acceptable to the City of Fresno; or the Bidder shall have registered with the Purchasing Manager of the City an annual bid bond sufficient to provide coverage in such amount. Bid Deposits will be refunded after a Contract has been executed with the successful Bidder or all bids have been rejected.

The City of Fresno hereby notifies all Bidders that no person shall be excluded from participation in, denied any benefits of, or otherwise discriminated against in connection with the award and performance of any contract on the basis of race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, sex, age, sexual orientation, or on any other basis prohibited by law.

The City reserves the right to reject any and all bids.

CITY OF FRESNO SPECIFICATIONS

PRODUCT PURCHASE CONTRACT FOR

INDUCTIVELY COUPLED PLASMA – MASS SPECTROMETRY (ICP-MS)
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TECHNICAL SPECIFICATIONS

GENERAL

- (a) It is the purpose and intent of these Specifications to describe the minimum requirements for the ICP-MS to be used by Wastewater Management Division of the Public Utilities Department within the City of Fresno.
- (b) All items not specifically mentioned which are required for a complete unit shall be included in the unit bid price.
- (c) All equipment and accessories to be furnished must be new and in current production. All products shall conform in design, strength, quality of material and workmanship to current industry standards.
- (d) Each bid shall be accompanied by a copy of any applicable manufacturer's Published Price List or website, and two copies of the manufacturer's descriptive literature and specifications or website, including a copy of the manufacturer's standard warranty.
- (e) All equipment and accessories shall comply with regulations of the Federal Occupational Safety and Health Administration (OSHA) and the California Occupational Safety and Health Administration (Cal/OSHA), whichever is more restrictive.

TECHNICAL SPECIFICATIONS:

- (1) The ICP-MS shall consist of a fully computer controlled ICP ion source with power output from 500 W to 1,600 W, mass flow controls (MFC) for all plasma gases; torch injector; sample introduction system (Peltier-cooled spray chamber, PFA nebulizer and associated mini-pump); discrete sampling device (either ESI Fast or Agilent ISIS-3); suitable bench for the instrument; water chiller (1-HP 230V/60Hz); computer system.
- (2) The ICP-MS shall have an interface kit; ion lenses; collision/reactor cell; mass analyzer covering a range of 4 to 290 amu; ion detection systems that covers 9 orders of dynamic range in a single scan; vacuum pumps; gas regulators for all gases.
- (3) The ICP-MS shall demonstrate (in 2% HNO₃, 0.5% HCl) typical sensitivities for ⁷Li, ⁵⁹Co, ¹¹⁵In, and ²³⁸U in both collision mode (using He gas), and normal mode (no gas); shall demonstrate CeO/Ce less than 2%, Ba⁺²/Ba⁺ less than 3%, and shall demonstrate typical background at 4.5 m/z, 9 m/z and 220 m/z, under the same instrumental conditions used for sensitivity demonstration.
- (4) The autosampler may be either an ESI SC-2DX or an Agilent SPS-4. The autosampler must have Teflon® metal-free tubing and be able to hold large number of samples (from 50 to 300 positions). The autosampler will have its own stand.
- (5) The computer system shall be Windows 7, 64 bit, with a 27-inch monitor with installed software to control the ICP-MS and the autosampler and with the ability to interface with the network.

- (6) The manufacturer may include a trade-in allowance for the existing equipment currently used by the City of Fresno Wastewater Management Division Laboratory (Elan DRC-e ICP-MS, SC-FAST autosampler and stand, Polyscience chiller/heat exchanger)
- (7) The ICP-MS must be installed and completely operational before onsite training and method development is initiated.
- (8) Bid must include installation, training and standard warranty on all parts of the completed package.

**EVALUATION OF BID
PROPOSALS**

FOR: INDUCTIVELY COUPLED PLASMA – MASS SPECTROMETRY (ICP-MS)

Bid File No. 3473
Bid Opening: 6/16/16

<u>BIDDERS</u>	<u>TOTAL NET BID AMOUNT</u>
1. Agilent Technologies, Inc. 2850 Centerville Road Wilmington, DE 19808	\$111,486.88
2. PerkinElmer Health Sciences, Inc. 710 Bridgeport Avenue Shelton, CT 06484-4794	\$119,850.51*
3. Thermo Electron North American LLC 1400 Northpoint Pkwy Suite 10 West Palm Beach, FL 33407	\$123,957.64

*Non-responsive – bidder submitted conflicting terms and conditions with bid

Each bidder has agreed to allow the City sixty-four (64) days from date bids are opened to accept or reject their bid proposal. Purchasing requests that you complete the following sections and return this bid evaluation to the Purchasing Division at the latest by Friday, August 19, 2016, 5:00 P.M.

The Budget Allocation for this expenditure is \$ 111,486.88. The contract price is at the Budget Allocation. If the overage is greater than 10% or only one bid was received, give explanation:

BACKGROUND OF PROJECT (To be completed by Evaluating Department/Division. Explain need for project/equipment):

The Wastewater Management Division (WMD) is requesting replacement of one (1) PerkinElmer Inductively Couple Plasma Mass Spectrophotometer (ICP-MS) for FY16. The WMD Laboratory is a State Certified Laboratory (ELAP) that performs testing of environmental samples to meet monitoring and reporting requirements of the Fresno-Clovis Regional Wastewater Reclamation Facility (RWRF) and the North Fresno Wastewater Treatment Facility (NFWTF). The laboratory utilizes multiple instruments to analyze wastewater constituents to meet reporting requirements and for process control.

The ICP-MS is the instrument of choice to determine low levels of heavy metals in environmental samples, specifically to the parts per billion (PPB) or parts per trillion (PPT) levels. Environmental regulations, specifically those related to water and wastewater require analytical instruments and procedures able to detect heavy metals at very low levels which can be done with the ICP-MS. The existing ICP-MS is 10 years old. It has had practically all its parts replaced, including the mass-flow controller for the nebulizer gas, and it is currently unable to adjust the argon gas flow to the nebulizer which is critical for reliable results. The

EVALUATION OF BID
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City is requesting that the replacement ICP-MS uses the best available technology in collision cell that can achieve highest sensitivity and demonstrate the highest interference removal.

DEPARTMENT CONCLUSIONS AND RECOMMENDATION:

Award a contract in the amount of \$ 111,486.88
to Agilent Technologies, Inc.
as the lowest responsive and responsible bidder.

Remarks:

Reject all bids. Reason:

EVALUATION OF BID
PROPOSALS

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Department Head Approval



Title: Director, DPU

Date: July 19, 2016

- Approve Dept. Recommendation Approve Finance/Purchasing Recommendation
- Disapprove Disapprove
- See Attachment

FINANCE DEPARTMENT

CITY MANAGER

Purchasing Manager Date

City Manager or Designee Date

Finance Director Date

FISCAL IMPACT STATEMENT

PROGRAM:

<u>RECOMMENDATION</u>	<u>TOTAL OR CURRENT</u>	<u>ANNUALIZED COST</u>
Direct Cost	<u>\$111,486.88</u>	<u>\$111,486.88</u>
Indirect Cost	_____	_____
TOTAL COST	<u>\$111,486.88</u>	<u>\$111,486.88</u>
Additional Revenue or Savings Generated	_____	_____
Net City Cost	<u>\$111,486.88</u>	<u>\$111,486.88</u>
Amount Budgeted (If none budgeted, identify source)	<u>\$111,486.88</u>	<u>\$111,486.88</u>