



06 MAY -9 10:28

STATE PROCUREMENT OFFICE NOTICE & REQUEST FOR SOLE SOURCE

- 1. TO: Chief Procurement Officer
- 2. FROM: Dept of Agriculture/Quality Assurance Div/Measurement Stds.
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:
Purchase Mettler Toledo AX 1005 and Mettler Toledo AX 106

4. Vendor Name: Mettler Toledo Inc. Address: 1900 Polaris Parkway Columbus, OH 43240	5. Price: <u>\$51057.80</u>
6. Term of Contract: (mm/dd/yyyy) From: <u>one time purchase</u> To: _____	7. Prior Sole Source Ref No. _____

8. Feature: The good, service, or construction has the following unique features, characteristics, or capabilities:
See Attached for description

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

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

12. Direct any inquiries to:

Department: DOA/Measurement Standards Br.
Contact Name/Title: Michael Tang/State Metrologist

13 Phone Number:

832-0682

Fax Number:

832-0683

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.*

Deane Ahamba
for Department Head

5/5/06

Date

Reserved for SPO Use Only

15 Date Notice Posted: 5/10/06

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 DOA's determination and research that only this manufacturer's equipment possesses certain features necessary to accomplish their calibration needs.

17.

APPROVED DISAPPROVED

Clara S. Taylor
Chief Procurement Officer

5/17/06

Date

State Procurement Office Notice and Request for Sole Source

1. To: Chief Procurement Officer
2. From: Department of Agriculture/ Quality Assurance Division/ Measurement Standards Branch
3. Description of goods, services or construction:
The goal of the Lab is to purchase dependable and accurate 1000 g capacity and 100 g capacity electronic mass comparators for precision laboratory mass calibrations. The mass comparators (balances) must have suitable readability for extra-fine precision mass calibration and the balances should minimize the adverse effects of air currents and temperature change from the environment. Ease of use, hanging self-centering pan, auto-calibration and accurate weighing process are essential features for the balance. The balance price must be within the Department's financial budget.

The Mettler Toledo AX 1005 (1100 g capacity, 10 ug readability) mass comparator and AX 106 (111 g capacity, 1 ug readability) mass comparator meet the high standards for laboratory precision mass calibrations. If approval is given, the mass comparators will be purchased from the manufacturer directly, instead of going through a distributor. The manufacturer's discounts are already reflected in the price.

4. Mettler Toledo Inc.
1900 Polaris Parkway
Columbus, OH 43240

5. Price:	AX1005	28684.95
	AX 106	<u>22372.85</u>
	Total	51057.80

6. Term of Contract: (none) purchase
7. Prior Sole Source Ref No. none
8. There are only two companies, Mettler Toledo and Sartorius that make precision laboratory balances for accurate mass calibrations. The Mettler Toledo AX 1005 and AX 106 mass comparators (mass balances) will be used in the mass laboratory for precision mass calibrations. The AX 1005 is the only mass comparator with 1100 g capacity with readability to 10 ug (0.00001 g). The Sartorius CC 1201 has a capacity of 1204 g and a readability of 0.1 mg (0.0001g). The AX 106, as well as the Sartorius CC 111, both has a capacity of 111 g with a readability of 1 ug (0.000001 g) The Mettler Toledo mass comparators have auto-calibration, hand free weight submission using motorized doors and a hanging self-centering pan. The Mettler Toledo balances have and internal and external draft shield for added protection against air currents and the environment. The Mettler Toledo mass comparators can be computer interfaced using the MC link Software.
9. The Measurement Standards Branch has the responsibility for testing and certifying commercial scales for accuracy. The inspectors that test these scales have weight kits that contain weights of different nominal values (example 2 lb, 1 lb, 0.5 lb etc). Under

the HRS laws, all weights that are used to test commercial scales must be annually certified for accuracy by the Measurement Standards (MS) Lab. The MS laboratory uses precision balances for accurate mass calibration of these weights. The goal of the MS laboratory is to purchase "easy to use" precision balances that provide the high accuracy measurements. These are some of the features of laboratory balances.

The balance capacity and the readability (the smallest number that can be read on the balance) must be suitable for accurate mass calibrations. The smaller the readability of the balance, is a good feature for more accuracy of the mass measurement. The AX 1005 is the only 1100 g mass comparator in its class to read 0.00001 g (which is 10-times more accurate than the Sartorius 1201 at 0.0001 g). The AX 106 and the CC 111 have the same capacity and readability.

A high accuracy balance must eliminate the adverse effects from air currents and environmental temperature changes. The Mettler Toledo balances have two draft shields to accomplish and minimize these effects. The Sartorius balances have one single shield (which will block less than two shields). The Mettler Toledo balances have motorized doors and the Sartorius balances have manual doors. Having the motorized doors will free up one of your hands from opening up the balance door. The Mettler Toledo balances also have FACT (Fully Automatic Calibration Technology) for the highest precision mass calibration. The Mettler Toledo balances can auto-calibrate itself at the push of a button. The Sartorius balances must be manually calibrated by placing a weight on the weighing pan.

For mass calibrations, placing the weight in the middle of the balance pan is essential to get an accurate measurement. The Mettler Toledo balances have a hanging self-centering pan. This would ensure that the weight was centered on the pan. The Sartorius balances have floor pans, which relies on the operator to center the weight on the pan.

The Mettler Toledo mass comparators can be computer interfaced using the MC Link software (not included in the purchase).

11. Besides Mettler Toledo, the only other source for precision mass comparators would be Sartorius. The Sartorius balances (CC 1201 and CC111) do not meet the needs of the laboratory because of only one draft shield to minimize unwanted outside effects on measurement. The readability on the CC1201 is not accurate or suitable enough for precision mass calibrations. The Sartorius balances do not have a hanging self-centering pan need for high accuracy mass calibration. The Sartorius balances do not have motorized doors to provide ease of use and do not have auto-calibration.
12. Dept of Agriculture/ Measurement Standards Branch
Michael Tang/ State Metrologist
13. Phone (808) 832-0682
Fax (808) 832-0683