

# DAVAO ORIENTAL STATE UNIVERSITY

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## SUPPLEMENTAL BID BULLETIN

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December 19, 2023

Project ID: GOODS2024-EPA-01  
 Project Name: **ESTABLISHMENT OF LABORATORY EQUIPMENT FOR NEWLY CONSTRUCTED UNIVERSITY RESEARCH, DEVELOPMENT AND EXTENSION CENTER**  
 ABC: P 15,000,000.00

### ADDENDUM NO. 1

This addendum No. 1 is issued to modify or amend items in the Bid Documents. This shall form an integral part of the Bid Documents.

	Original Document	Amendment
<b>Submission and Opening of Bids</b>	Submission of Bids: <del>December 26, 2023,</del> 10:00AM  Opening of Bids: <del>December 26, 2023,</del> 10:15AM	Submission of Bids: <b>December 28, 2023,</b> <b>10:00AM</b>  Opening of Bids: <b>December 28, 2023,</b> <b>10:15AM</b>
<b>Schedule of Requirements</b> (page 28)  <b>Item Nos. 1 - 7</b>	<del>Sixty (60)</del> calendar days upon receipt of Notice to Proceed	<b>One Hundred Twenty (120)</b> calendar days upon receipt of Notice to Proceed
<b>Technical Specification</b> (page 31-38)  <b>Item No. 1 - 7</b>		Additional Requirement:  <b>Prospective bidders have at least thirty-five (35) years of experience in the business as distributor (true to all equipment)</b>
<b>Technical Specification</b> (page 32-33)  <b>Item No. 1.</b>  <b>1 unit</b> <b>Atomic Absorption Spectrometer (AAS)-Flame &amp; Graphite-Furnace</b>	Specification: Technical Specs: * flame and graphite AAS in <del>one unit</del> * dual atomizer * easy operation and automatic switching between flame & furnace * dual background correction function * user-friendly software for easy and manageable data processing * modern, smart and intuitive user interface * PNSDW and BSWM Compliant * 8 lamp turret/mount * analyses-ready system (equipment, accessories, standard solutions, reagents, gas, laboratory wares, consumables, etc.)  1. Flame * can determine at least 60 elements * ppb to high ppm levels	Specification: Technical Specs: * flame and graphite AAS <b>(two-in-one)</b> * dual atomizer <b>in one unit</b> * easy operation and automatic switching between flame & furnace * dual background correction function * user-friendly software for easy and manageable data processing * modern, smart and intuitive user interface * PNSDW and BSWM Compliant * 8 lamp turret/mount * analyses-ready system (equipment, accessories, standard solutions, reagents, gas, laboratory wares, consumables, etc.)  1. Flame * can determine at least 60 elements * ppb to high ppm levels

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	<p>* AAS standards</p> <p>2. Graphite-Furnace                  * sub-ppb to high ppb level                  * viewing camera                  * at least 10 pcs graphite tubes</p> <p>Safety Features:                  1. gas pressure monitor                  2. flame monitor                  3. vibration sensor/detector                  4. automatic gas leak detection/function                  5. exhaust system (canopy, ducting, exhaust fan, etc.)                  6. automatic shut-off</p> <p>Mandatory Accessories and Inclusions:                  1. autosampler included                  2. User's Manual                  3. inclusion of 16 lamps, to be specified by the end user                  4. gas (acetylene, N<sub>2</sub>O, Ar), gas tanks, gas cage, gas regulators, gas lines</p> <p>5. complete PC system, Microsoft Windows 10 (64 bit), at least 21.5" LED color monitor, HD drive 1 TB, 8 GB RAM, Processor i-7, color printer, AVR                  6. Recirculating chiller/cooling water circulator                  7. 10 KVA UPS                  8. Hydride vapor generation with accessories                  9. silent-type air compressor                  10. sample preparation/digestion system and accessories                  11. one (1) HP split-type aircon</p>	<p>* AAS standards</p> <p>2. Graphite-Furnace                  * sub-ppb to high ppb level                  * viewing camera                  * at least 10 pcs graphite tubes</p> <p>Safety Features:                  1. gas pressure monitor                  2. flame monitor                  3. vibration sensor/detector                  4. automatic gas leak detection/function                  5. exhaust system (canopy, ducting, exhaust fan, etc.) <b>location of the equipment is on the 2nd floor; directly above it is the roof of the building (approximately 5-8 meters)</b>                  6. automatic shut-off</p> <p>Mandatory Accessories and Inclusions:                  1. autosampler included for both flame and furnace analysis                  2. User's Manual                  3. inclusion of 16 lamps, to be specified by the end user                  4. gas (acetylene, N<sub>2</sub>O, Ar), gas tanks, gas cage, gas regulators, gas lines <b>Located at the ground floor approximately 10-15 meters to the equipment which is located on the 2nd floor</b></p> <p>5. complete PC system, Microsoft Windows 10 (64 bit), at least 21.5" LED color monitor, HD drive 1 TB, 8 GB RAM, Processor i-7, color printer, AVR                  6. Recirculating chiller/cooling water circulator                  7. 10 KVA UPS                  8. Hydride vapor generation with accessories                  9. silent-type air compressor                  10. sample preparation/digestion system and accessories                  11. one (1) HP split-type aircon</p> <p><b>12. microwave digester for sample preparation with 6-10 number of vessels</b></p> <p><b>13. Hallow cathode lamp/ electrode discharge lamp (EDL) for the 16 elements: (Calcium, Magnesium, Sodium, Zinc, Copper, Manganese, Iron, Boron, Barium, Aluminum, Cadmium, Arsenic, Lead, Nickel, Chromium, Cobalt)</b></p>
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<p><b>Technical Specification</b> (page 33-34)</p> <p><b>Item No. 2.</b></p> <p><b>1 unit</b> <b>Gas</b> <b>Chromatography-Mass Spectrometry</b></p>	<p>Technical Specs: * smart and highly efficient * modern, smart and intuitive user interface * quadrupole detector * high reliability of analytical results * analyses-ready system (equipment, accessories, standard solutions, reagents, gas, laboratory wares, consumables, etc.)</p> <p>Safety Features: 1. with alert and safety functions 2. with energy and gas saving capabilities 3. easy to maintain 4. automatic gas leak detection/function 5. exhaust system (canopy, ducting, exhaust fan, etc.)</p> <p>Mandatory Accessories and Inclusions: 1. ChemOffice (ChemDraw, 2D &amp; 3D modeling application) for Mac and Windows</p> <p>2. latest NIST and other libraries for natural products, essential oils, flavor, fragrance, pesticides, VOCs, food, cosmetics, drugs, beverages, wine, beer, allergens, off- flavors and others 3. automatic sample injection system</p> <p>4. 10 KVA UPS 5. complete PC system, Microsoft Windows 10 (64 bit), at least 21.5' LED color monitor, HD drive 1 TB, 8 GB RAM, Processor i-7, color printer, AVR <del>6. silent type air compressor</del> 7. 1 HP split-type aircon 8. gas, gas tanks, gas cage, gas regulators, gas lines 9. User's Manual 10. headspace sampler</p> <p>Terms &amp; Conditions: 1. Delivery: <del>60 days</del> upon receipt of approved PO 2. Price offered includes installation, commissioning, maintenance, and training</p>	<p>Technical Specs: * smart and highly efficient * modern, smart and intuitive user interface * quadrupole detector * high reliability of analytical results * analyses-ready system (equipment, accessories, standard solutions, reagents, gas, laboratory wares, consumables, etc.)</p> <p>Safety Features: 1. with alert and safety functions 2. with energy and gas saving capabilities 3. easy to maintain 4. automatic gas leak detection/function 5. exhaust system (canopy, ducting, exhaust fan, etc.)</p> <p><b>Location of equipment : 2nd floor</b> <b>Location of exhaust: Rooftop, directly above the 2nd floor; 5-8 m</b> <b>Location of gas tank :Ground floor</b> <b>Estimated distance: 10-15 meters</b></p> <p>Mandatory Accessories and Inclusions: 1. ChemOffice (ChemDraw ultra, 2D &amp; 3D modeling application) <b>- one time payment, non-recurring payment; software can be used and accessed without restriction forever</b> for Mac and Windows</p> <p>2. latest NIST and other libraries for natural products, essential oils, flavor, fragrance, pesticides, VOCs, food, cosmetics, drugs, beverages, wine, beer, allergens, off- flavors and others 3. <b>2 in 1</b> automatic sample injection system <b>(liquid and head space</b> <b>Note: minimum of 16 liquid sampler turret/ 16 vials</b></p> <p>4. 10 KVA UPS 5. complete PC system, Microsoft Windows 10 (64 bit), at least 21.5' LED color monitor, HD drive 1 TB, 8 GB RAM, Processor i-7, color printer, AVR <b>6. One (1) unit dehumidifier</b> 7. 1 HP split-type aircon 8. gas, gas tanks, gas cage, gas regulators, gas lines 9. User's Manual 10. headspace sampler <b>11. 16 liquid sampler turret/ 16 vials</b></p> <p><b>Terms &amp; Conditions:</b> 1. Delivery: <b>120 days</b> upon receipt of approved PO 2. Price offered includes installation, commissioning, maintenance, and training</p>
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	<p>by trained service engineers and application specialist/chemist.</p> <p>3. Offer includes at least one (1) year warranty on parts and two (2) years on services</p> <p>4. Availability of service engineers &amp; technicians within 72 hours after receipt of call</p> <p>5. EI source should be supplied and have an option to upgrade to a hydroinert source for Hydrogen carrier gas applications in the future.</p> <p>6. Mass Spectrometer must utilize a Quadrupole Mass Filter independently heated and its temperature is to be user-selectable so that the system is kept clean and stable and allows robust operation and bake out.</p> <p>7. The Mass Spectrometer's detector should come with trace ion detection technology to remove noise.</p>	<p>by trained service engineers and application specialist/chemist.</p> <p>3. Offer includes at least one (1) year warranty on parts and two (2) years on services</p> <p>4. Availability of service engineers &amp; technicians within 72 hours after receipt of call</p> <p>5. EI source <b>(hydrogen and helium)</b> should be supplied and have an option to upgrade to a hydroinert source for Hydrogen carrier gas applications in the future.</p> <p>6. Mass Spectrometer must utilize a Quadrupole Mass Filter independently heated and its temperature is to be user-selectable so that the system is kept clean and stable and allows robust operation and bake out or <b>an equivalent technology that can reduce contamination.</b></p> <p>7. The Mass Spectrometer's detector should come with trace ion detection technology to remove noise.</p> <p><b>8. Mass range: 0.6 – 1091 u</b></p>
<p><b>Technical Specification</b> (page 35)</p> <p><b>Item No. 4.</b></p> <p><b>1 unit Refrigerator</b></p>	<p>Specification:</p> <ul style="list-style-type: none"> <li>• HD Inverter Upright Chiller</li> <li>• Heavy Duty Quality</li> <li>• Energy Efficient Inverter Compressor • Super Quick Chill</li> <li>• 7 Level Temperature Control</li> <li>• Blower Fan</li> <li>• LED Lights</li> <li>• Recessed Handle</li> <li>• Key Lock</li> <li>• Fan On Glass Door to Prevent Moisture</li> <li>• Clean Back</li> </ul>	<p>Specification:</p> <ul style="list-style-type: none"> <li>• HD Inverter Upright Chiller</li> <li>• Heavy Duty Quality</li> <li>• Energy Efficient Inverter Compressor • Super Quick Chill</li> <li>• 7 Level Temperature Control</li> <li>• Blower Fan</li> <li>• LED Lights</li> <li>• Recessed Handle</li> <li>• Key Lock</li> <li>• Fan On Glass Door to Prevent Moisture</li> <li>• Clean Back</li> <li>• <b>7 cubic feet</b></li> <li>• <b>Two-door</b></li> </ul>

For guidance and information of all concerned.

  
**DR. CHERYLL L. BAUTISTA**  
 BAC Chairperson