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OFFICE OF THE BIDS & AWARDS COMMITTEE

**SUPPLEMENTAL/BID BULLETIN NO. 2**

August 18, 2021

This Supplemental/Bid Bulletin No. 2 is issued to modify **Section VII. Technical Specifications (Items No. 5, 6, 12, 16, 25, 26, 27, 28, 29, 30, and 33)** in the Bidding Documents for the **SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING AND TRAINING OF VARIOUS FOOD SCIENCE PROCESSING EQUIPMENT FOR MALIMONO CAMPUS**. This shall form an integral part of the Bidding Documents.

**SUBJECT: CHANGE IN TECHNICAL SPECIFICATONS**

<b>FROM</b>			
<b>TECHNICAL SPECIFICATIONS</b>			
<b>Item</b>	<b>Unit</b>	<b>Item Description</b>	<b>Quantity</b>
<b>5</b>	<b>unit</b>	<b>Dishwashing Machine</b> Specifications: Rated Volume: 268 Liters Rated Current Input: 800 Watts Rinse Temperature 50~60°C Wash Temperature 100~300°C Unit Dimension: 480x430x1330mm	<b>1</b>
<b>6</b>	<b>unit</b>	<b>Ice Crusher</b> Specifications: Unique stainless steel blade design, compact design Heavy Duty Capacity: 120kg/hour Wattage: 200 Watts Power Supply: 220V, 50Hz Material: ABS+PS+S/S 304	<b>1</b>
<b>12</b>	<b>unit</b>	<b>Deck Automatic Electric Oven with Timer</b> Specifications: Temperature Control: 0-400°C Number of Deck: 2 Gas/Electric Combination Power: 200Watts	<b>1</b>

		Digital Display Thermostat Top and Bottom Temperature Controller Timer Capacity: 4 tray size (16 x 12") per deck Stainless steel burning gas pipe Aluminum Coated chamber	
16	unit	<b>Laboratory Autoclave</b> Specifications: Integrated, separate steam generator Housing support frame and pressure Vessel made of corrosion-resistant stainless steel Temperature and pressure range 140°C, 4 bar absolute pressure Touch screen control number of sterilization programs code-secured access rights for changing parameters and further safety-relevant intervention internal memory for storing up to 500 sterilization cycles timer for starting programs auto fill automatic demineralized water feed for steam generation. Flexible temperature sensor Additional temperature sensor in condense exhaust temperature holding function for liquids after program finish special program for durham tubes calculation of FO value special program for waste sterilization with pulse heat-up for more efficient air exhaust watercooled steam exhaust, thermostically controlled programmable automatic dooropening on completion of program RS232 interface for external data transmission (network-compatible) Function: Automatic Micro-processor Controlled, High Capacity Chamber dimension 1000 Ø x 2000(mm) Chamber volume in liters total 1990(minimum) Max working pressure: 0.30Mpa Max working temperature: 145°C Capacity: 1580 Liters Sterilization Chamber: Stainless Steel Heating Capacity: 36KW Floor Space: 2310mm/1310mm/1860mm(maximum)	1
25	unit	<b>Binocular Microscope</b> 1.3MP Digital With LED Illumination, With built-in camera Eyepiece: 10x, 25X Head: Binocular, 30° incline, 360° rotatable Stage Design: Double layer with caliper 40x to 2000x magnification with four objective lenses and 2 sets of eyepieces Transmitted Illumination: Variableintensity 1W LED fly-eye lens Condenser: NA 1.25 Abbe condenser with iris diaphragm	2
26	unit	<b>Chips/Granule Packing Machine</b> Specification: Food Grade stainless steel hopper Control System: Micro Computer Roll diameter max. 300mm Measurement range 50-500ml Maximum Bag Size: 280mm x 180mm Include Date Printer	1
27	unit	<b>Laboratory Bacterial Colony Counter</b> Specification: LED Digital display Made of counter, pen, counting cell. The counter is made of CMOS integrated electric, LED Nixie tube. The word high is 13mm, clear and bright; The pen is sensitive and accurate. There are two kinds of light source, adjustable. Phonetic Counting: Yes Application: 5X, 10X Counter range: 0-999 Suitable Petri Dishes: D50, D90mm Lamp Power: 16W Character Height: 13mm Power Supply: AC110/220V±10%, 50/60Hz	1
28	unit	<b>Semi Auto Sealing Machine</b> Specification: Number of seaming roller: 2 Number of sealing head: 1 Sealing speed: 23 cans/minute Sealing Height: 25-220mm Sealing Can Diameter: 35-130mm Power Supply: Single Phase AC 220V, 50/60Hz Power: 0.75KW Weight: 100KG	2

29	unit	<b>Quick Freezing Machine (Flast Freezer)</b> Specification: Material: Stainless Steel Refrigerant: R404 Compressor: Danfoss Plate freezer type Ultra Low Temperature: -40degrees in 50 minutes. Power: 0.75KW Voltage 220V, 60Hz Capacity: 200Liters 10 tray	1
30	unit	<b>Ice Block &amp; Tube Maker Machine</b> Specification: Number of stainless block ice molds: 16 Capacity: 650 kgs/day Material: Stainless Steel 304 FOAMED-IN-PLACE INSULATION Production time: Ice blocks, 8 ~ 10hours Compressor: 3 Tons (4 HP) Wattage 2.6 kw/hr. Dimensions: 68Lx37Wx37H inches Digital Temperature Control Includes: 1) 2 bags Salt for your Brine Solution 2) SALT PERCENTAGE REFRACTOMETER for brine solution control 3) 16 pcs Stainless 304 Ice Block Mold 12 kilo Ice Weight. 4. 3 pcs Ice tube molds. Power Supply: 220V, 60Hz, Single Phase	1
33	unit	<b>Food Dehydrators Machine (All-inOne)</b> Specifications: Drying used for: Fruits, Vegetables, Meat, Seafood, Nuts, Seeds, Herbs & Spices, Tea, Pasta. Material: Stainless steel food grade gauge # 430 Power Supply: 220V, 50/60Hz Capacity: 20-100kg/Batch Power Input: 1.0kw Current: 5.0A Fast Heating-up: 1.0KW Maximum Power: 2.2KW Dehydration Amount: 3.5Kg/h (@50°C,80%) Working Temperature: 20-80°C Controller: Smart color-touch-screen Noise Level: ≤60bB(A) Wind Volume: 1100m³/h Machine Size(L*W*H): 1180*680*1800mm Tray Size: (L*W*H): 780*540*30mm Tray Number: 15pcs stainless steel # 304 Net Weight: 170Kg Gross Weight: 190Kg	1

<b>TO</b>			
<b>TECHNICAL SPECIFICATIONS</b>			
Item	Unit	Item Description	Quantity
5	unit	<b>Dishwashing Machine</b> Specifications: Dimension: 715 x 740 x 1490mm Voltage: 380 volts Power: 5.6 kw Inlet Water Temperature: 50°C - 60°C Maximum Washing Capacity: 60 baskets/hour Basket Dimensions: 500 x 500mm Maximum Water Consumption: 2-2.8Liter	1
6	unit	<b>Ice Crusher</b> Specifications: Unique stainless steel blade design, compact design Heavy Duty Capacity: 120kg/hr Wattage: 360 watts Power Supply: 220V, 60Hz Material: ABS+PS+S/s 304	
12	unit	<b>Deck Automation Electric Oven with Timer</b> Specifications: Energy Hot Support: By Gas (need to connect electric)	

		<p>Unit Dimension: 1370 x 830 x 1300mm  Chamber Size: 870 x 660 x 230mm  Power: 200W  Weight: 285KG  Voltage: 220V, single phase, 60Hz  Temperature: 0-300°C  Capacity: 2 layers 4 trays  Front Size: ss#430 0.6mm, the other size painted steel  Chamber: bottom cold steel plate, chamber other size: aluminum plate 1.5mm</p>	
16	unit	<p><b>Laboratory Autoclave</b>  Specifications:  Inner diameter/length/capacity: 1000mm/1800mm/1.8m³  Design pressure: 0.35Mpa/50.8Psi  Max Working Pressure: 0.30Mpa/43.5Psi  Max Working Temperature: 145°C  Boiler needed/minimum pressure: 0.6Ton per hour  Install power: 8Kw  Supply Voltage: 220V 1 phase 60hz (or customer's requirement)  Size of Baskets: 900mm x 650mm x 650mm  Material of Body: Sus304 stainless steel  Thickness of body: 4mm  Floor Space: 2300mm/1300mm/1850mm  Weight(empty)/load: 0.65T/1.25T  Water Quality Required: Cooling Water: Pipe Water, chloride ion content are not allowed to exceed 25mg/L  Processing Water: Soft water hardness ≤0.003mmol/L</p> <p><b>CONSUMPTION</b>  Power: 3kw/h  Steam: 130kg  Soft Water: 180L  Piper Water: 2500L(recycled)  Compressed Air: 2m³  Time: Loading 2min + raising temp 5min + holding time 15min + cooling 10min + discharge 2min Total:34min</p> <p><b>SUBSIDIARY FACILITIES</b>  Air Compressor: air output: 0.3m³/min; pressure: 10kg  Air Storage Tank: Capacity : 1m³; Pressure: 10kg  Soften water system: 1000L/H  Fiberglass tank: 4m³  Cooling water pump: 40m³/H</p>	
25	unit	<p><b>Binocular Microscope</b>  Specifications:  1.3MP  Digital  Eyepiece: 10x, 20x  Head: Binocular, 30° incline, 360° rotatable  Stage Design: Double Layer with Caliper  40x to 2000x magnification with four objective lenses and 2 sets of eyepieces  Transmitted Illumination: Variable-intensity 1W LED fly-eye lens  Condenser: NA 1.25 Abbe condenser with iris diaphragm</p>	
26	unit	<p><b>Chips/Granule Packing Machine</b>  Specifications:  Food Grade stainless steel hopper  Control System: Micro Computer  Roll Diameter: Max.: 320mm  Measurement range: 50-750ml  Maximum Bag Size: 280mm x 180mm  Include Date Printer</p>	
27	unit	<p><b>Laboratory Bacterial Colony Counter</b>  Specifications:</p>	

		<p>LED Digital display          Made of counter, pen, counting cell. The counter is made of CMOS integrated electric, LED Nixie tube.          The word high is 13mm clear and bright          The pen is sensitive and accurate.          There are two kinds of light source, adjustable          Phonetic Counting: No          Application: 5X, 10X          Counter Range: 0-999          Suitable Petri Dishes: &lt;math&gt;\varnothing&lt;/math&gt;100mm          Lamp Power: 16W          Character Height: 13mm          Power Supply: AC220V, 50/60Hz</p>	
28	unit	<p><b>Semi Auto Sealing Machine</b>          Specifications:          Number of Seaming Roller: 2          Number of Sealing Head: 1          Sealing Speed: 15-24 cans/minute          Sealing Height: 25-220mm          Sealing Can Diameter: 35-130mm          Power Supply: 220V, 60Hz          Power: 0.55Kw          Weight: 60kg</p>	
29	unit	<p><b>Quick Freezing Machine (Blast Freezer)</b>          Specifications:          12 Decks          Temperature: -40°C          790 x 900 x 1640mm          Features: Quick Freezing, Fan Cooling, Imported Compressor: SECOP (Danfoss)</p>	
30	unit	<p><b>Ice Block &amp; Tube Maker Machine</b>          Specifications:          650kgs per day capacity, based on 24c water and room temperature          Material: Stainless Steel 304          FOAMED-IN-PLACE INSULATION          3 Refrigeration Tons Capacity          Power Wattage: 2.6kw/hr.          Dimensions: 68L x 37W x 37H inch          Power Supply: 220V, 60Hz, Single Phase</p> <p>Inclusions:          16pcs Stainless Steel Block Ice Molds(12.5 kilo Ice weight)          3 pcs Stainless Steel Tube Ice Molds, 78 cavities          2 sacks Iodized Salt          Salt Percentage Refractometer</p>	
33	unit	<p><b>Food DehydratorsMachine (All-inOne)</b>          Specifications:          Drying is used for: Fruits, Vegetables, Meat, Seafood, Nuts, Seeds, Herbs &amp; Spices, Tea, Pasta          Material: Stainless Steel food grade gauge #430          Power Supply: 220V, 50/60Hz          Capacity: 20-100kg/Batch          Power Input: 1.0kw          Current: 5.0A          Fast Heating-up: 1.0KW          Maximum Power: 2.32KW          Dehydration Amount: 3.5Kg/h (@50°C, 80%)          Working Temperature: 20-80°C          Controller: Smart color-touch-screen          Noise level: &lt;math&gt;&lt;60&lt;/math&gt;bB(A)          Wind Level: 1100m<sup>3</sup>/h          Machine Size: L*W*H): 1180 X 680 X 1800mm</p>	

		Tray Size: (L*W*H): 780*540*30mm Tray Number: 15pcs stainless steel #304 Net Weight: 188Kg Gross Weight: 235Kg	
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For your guidance and information.



**ROWENA A. PLANDO, Ph.D.**  
**BAC Chairperson**

Received by the Bidder: \_\_\_\_\_

Date: \_\_\_\_\_