

| Item No. | Description   | Quantity | Unit | Unit Cost  | Total      |
|----------|---|----------|------|------------|------------|
|          | <b>2023-03-0399 LSD NSHP</b>  |          |      |            |            |
| 1        | Technical and Scientific Equipment for Laboratory Services Division<br><b>Nitrogen Distillation Unit</b><br>Specifications:<br>housing: polyurethane<br>Distillation time: 3 - 5 min per sample<br>Detection limit 0.1 mg N<br>Retrieval rate > 99.5%<br>Reproducibility ± 1%<br>Adjustable steam output (10% - 100%)<br>easy, menu-driven operation using a single control<br>Programmable reaction time<br>Programmable distillation time<br>USB interface<br>Level monitoring for the canister set<br>Practical quick-release clamping device, which the user can also easily operate with their left hand<br>Width (in cm): max 50<br>Depth (in cm): max 60<br>Height (in cm): max 70<br><b>Power (in W): max 1700</b><br>Current (in A): 9A<br><b>Cooling Water Consumption (in L/min): max 5</b><br>Max Distillation Time (in min/sample): approx 2-4 min per sample<br>with supply container<br><b>with 3 years warranty</b><br><b>with PMS (1st year) and service visits/checkup within warranty period (3 years)</b> | 1        | unit | 700,000.00 | 700,000.00 |
| 2        | <b>Horizontal Reciprocating Shaker</b><br>Specifications:<br>Motor DC 250W<br>Shaking type : Horizontal/vertical<br>Speed 0~350 rpm<br>Stroke: 20-50 mm<br>Timer 0~60 min.<br>Control Step-less speed adjust system<br>Size: minimum 430 x 430 x 580 mm<br>Weight (kg): minimum 59<br>Funnel holder (ml x pcs) :<br>100 x 6<br>200 x 6<br>300 x 4<br>500 x 4<br>1000 x 3  | 2        | unit | 350,000.00 | 700,000.00 |

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|---|--|---|------|------------|------------|
|   | <p>with accessories:</p> <p>Funnel Holder 100ml up to 1000ml</p> <p>Triangular Flask Holder (1pc)</p> <p>Centrifuge Tube Holder (1pc)</p> <p>Test Tube rack Holder (1pc)</p> <p><b>with 3 years warranty</b></p> <p><b>with PMS (1st year) and service visits/checkup within warranty period (3 years)</b></p>   |   |      |            |            |
| 3 | <p><b>Drying Oven</b></p> <p>Specifications:</p> <p>Temperature Range: min. 5°C above ambient up to +300°C</p> <p>Temperature Sensor: 1 Pt100 sensor DIN class A in 4-wire circuit</p> <p>Timer: Digital backwards counter with target time setting, adjustable from 1 minute to 99 days</p> <p>Convection: natural convection</p> <p>Vent: vent connection with restrictor flap</p> <p>Temperature Control: adjustable electronic overtemperature monitor and mechanical temperature limiter TB, protection class 1 according to DIN 12880 to switch off the heating approx. 20°C above nominal temperature</p> <p>Internals: 2 stainless steel grid(s), electropolished</p> <p>Door: fully insulated stainless steel door with 2-point locking (compression door lock)</p> <p>Interior: easy-to-clean interior, made of stainless steel, reinforced by deep drawn ribbing with integrated and protected large-area heating on four sides</p> <p>Volume: up to 256 L</p> <p>Dimensions WxHxD: minimum 640 x 800 x 500 mm</p> <p>Max Loading of Chamber: max 300kg</p> <p>Voltage Electrical Load: 230 V, 50/60 Hz approx. 3400 W</p> <p>Inclusions:</p> <p>4 pc - Digital Burette</p> <p>4 pc - Bottletop Dispenser</p> <p><b>with 3 years warranty</b></p> <p><b>with PMS (1st year) and service visits/checkup within warranty period (3 years)</b></p> | 2 | unit | 350,000.00 | 700,000.00 |

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| 4  | <b>Block Digester with scrubber (40 placer)</b>  | 1 | unit | 700,000.00 | 700,000.00 |
|  | Specifications:  |   |      |            |            |
|  | High-performance heating and extraction hood with exhaust collector                    |   |      |            |            |
|  | one-button operation for extremely easy and quick programming                          |   |      |            |            |
|  | 25 freely configurable programs for block temperature and digestion time               |   |      |            |            |
|  | Storeable applications   |   |      |            |            |
|  | with 40 sample slots, for digestion vessels with a volume of 100 ml                    |   |      |            |            |
|  | width: minimum 48 cm   |   |      |            |            |
|  | depth: minimum 51 cm   |   |      |            |            |
|  | height: minimum 76.50 cm   |   |      |            |            |
|  | weight: minimum 40 kg  |   |      |            |            |
|  | Power Consumption: 2200 W  |   |      |            |            |
|  | Current Consumption: 10A   |   |      |            |            |
|  | Sample Positions: 40   |   |      |            |            |
|  | Temperature Range Max: 430°C   |   |      |            |            |
|  | Digestion Vessel size: 100mL   |   |      |            |            |
|  | Inclusions:  |   |      |            |            |
|  | fume evacuator with vacuum pump 40 l/h   |   |      |            |            |
|  | <b>with 3 years warranty</b>   |   |      |            |            |
| <b>with PMS (1st year) and service visits/checkup within warranty period (3 years)</b> |  |   |      |            |            |
| 5  | <b>Hot Plate</b>   | 2 | unit | 100,000.00 | 200,000.00 |
|  | Specifications:  |   |      |            |            |
|  | Type: Analog Corrosion Resistant Hot Plate   |   |      |            |            |
|  | Solid ceramic heater surface for excellent chemical resistance                         |   |      |            |            |
|  | Heater plate mounted in cast aluminum frame that remains cool for safety               |   |      |            |            |
|  | Heater Temperature Range: 100 C to 450 C   |   |      |            |            |
|  | Heater Plate Size: minimum 12" (308 mm) x 12" (308 mm)                                 |   |      |            |            |
|  | Heater Power: max 1400 watts   |   |      |            |            |
|  | Temperature Control: +/- 2.5 C of setting  |   |      |            |            |
|  | Heater On Indicator: red lamp  |   |      |            |            |
|  | Operating Voltage: 220 VAC   |   |      |            |            |
|  | with fuse  |   |      |            |            |
|  | with detachable line cord  |   |      |            |            |
|  | <b>with 3 years warranty</b>   |   |      |            |            |
|  | <b>with PMS (1st year) and service visits/checkup within warranty period (3 years)</b> |   |      |            |            |
| <b>Laboratory Refrigerator</b>   |  |   |      |            |            |

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| 6  | Specifications:  | 2 | unit | 175,000.00 | 350,000.00 |
|  | <b>Capacity: minimum 415L</b>  |   |      |            |            |
|  | Temperature Range: 2°C to 8°C  |   |      |            |            |
|  | No. of Shelves/Drawers: 6 Shelves/1 basket   |   |      |            |            |
|  | Internal Material: Sprayed Steel Plates/Powder Coated                                  |   |      |            |            |
|  | External Material: Sprayed Steel Plates/Powder Coated                                  |   |      |            |            |
|  | Refrigerant: R134a or equivalent   |   |      |            |            |
|  | Outer Door/Type: One heating glass door with automatic rebound                         |   |      |            |            |
|  | Power Consumption (kWh/24hr): 2.66   |   |      |            |            |
|  | <b>Power: min 230W</b>   |   |      |            |            |
|  | Current: min 1.18A   |   |      |            |            |
|  | Power Supply: 220V/50Hz  |   |      |            |            |
|  | Inclusions:  |   |      |            |            |
|  | with plug adaptor  |   |      |            |            |
|  | <b>with 3 years warranty</b>   |   |      |            |            |
|  | <b>with PMS (1st year) and service visits/checkup within warranty period (3 years)</b> |   |      |            |            |
|  | <b>2023-03-0478 LSD NSHP</b>   |   |      |            |            |
| Technical and Scientific Equipment for Calibration Laboratory  |  |   |      |            |            |
| <b>Calibration Climatic Chamber</b>                            |  |   |      |            |            |
| Specifications:  |  |   |      |            |            |
| Type: bench-top temperature and humidity test chamber          |  |   |      |            |            |
| Temperature range: -40 to 150 °C                               |  |   |      |            |            |
| Temperature fluctuation: ±0.5 °C                               |  |   |      |            |            |
| Temperature Resolution: 0.01°C                                 |  |   |      |            |            |
| Cooling rate:  |  |   |      |            |            |
| 150 to 25°C (1 to 2°C /min)                                    |  |   |      |            |            |
| 25 to -40°C (0.7 to 1°C /min)                                  |  |   |      |            |            |
| Heating rate: 3 to 5°C /min                                    |  |   |      |            |            |
| Temperature Uniformity:  |  |   |      |            |            |
| ±1.0 °C (-40 to 100°C)   |  |   |      |            |            |
| ±1.5 °C (100.1 to 150°C)                                       |  |   |      |            |            |
| Humidity Range: 20.0%RH to 98%RH                               |  |   |      |            |            |
| Humidity Fluctuation: ±2.0%RH                                  |  |   |      |            |            |
| Humidity Uniformity: ±3.0%RH                                   |  |   |      |            |            |
| Humidity Resolution: 0.1%RH                                    |  |   |      |            |            |
| Internal Material: SUS304 stainless steel (1.2mm)              |  |   |      |            |            |
| External Material: cold-rolled plate (1.2mm), powder coating   |  |   |      |            |            |
| Heat insulation: polyurethane foam (100mm) + glass wool (10mm) |  |   |      |            |            |
| Fan: centrifugal fan (impeller fan)                            |  |   |      |            |            |
| Refrigeration compressor: hermetic compressor                  |  |   |      |            |            |

|  |   |   |      |              |              |
|--|---|---|------|--------------|--------------|
| 7  | Cooling mode: air cooling   | 1 | unit | 2,550,000.00 | 2,550,000.00 |
|  | Refrigerant: R404A/R449A  |   |      |              |              |
|  | Evaporator: finned-tube exchanger   |   |      |              |              |
|  | Heater: nickel chrome strip heater  |   |      |              |              |
|  | Humidifier: steam humidifier  |   |      |              |              |
|  | Observation Window: multi-layer hollow tempered glass belt with automatic defrosting function, which can guarantee the frost-free and condensation of the glass surface during any test |   |      |              |              |
|  | Sample Rack: Stainless steel sample holder 2 layers, height is adjustable, load-bearing (uniform): 40kg/layer   |   |      |              |              |
|  | Water Storage Tank Capacity: minimum 15L  |   |      |              |              |
|  | Display: TFT color LCD display  |   |      |              |              |
|  | Communication: Ethernet, RS485, RS232 interface   |   |      |              |              |
|  | Interior Size mm (WxHxD): at least 300x300x250  |   |      |              |              |
|  | Exterior Size mm (WxHxD): at least 480x835x990  |   |      |              |              |
|  | Power Supply: 220V/AC 50/60Hz 12 A  |   |      |              |              |
|  | Inclusions:   |   |      |              |              |
|  | <b>One (1) year warranty</b>  |   |      |              |              |
|  | Free PMS within warranty period   |   |      |              |              |
|  | Training for four (4) end users at Manufacturer's Training Site, inclusive of all expenses  |   |      |              |              |
|  | 15 units - Dehumidifier with Air Purifier function  |   |      |              |              |
|  | Specifications:   |   |      |              |              |
|  | Efficient compressor & Low Noise Operation  |   |      |              |              |
|  | Silver ion dustproof, bacteriostatic and mold-proof filter  |   |      |              |              |
|  | Waterproof and Splashproof 7L large capacity water tank   |   |      |              |              |
|  | Pull-out control panel  |   |      |              |              |
|  | Real-time air humidity display  |   |      |              |              |
|  | 360 degrees rotating wheel  |   |      |              |              |
|  | Coverage Area: up to 125 sqm  |   |      |              |              |
|  | Fog output: 30000ml/d (30°/80% Relative Humidity)   |   |      |              |              |
|  | Water Capacity: 7 Liters (water tank)   |   |      |              |              |
| Application compatibility: yes, smartphone |   |   |      |              |              |
| Power: 420W                                |   |   |      |              |              |
| Voltage: 220V                              |   |   |      |              |              |
| Dimensions: minimum 59 x 25 x 38 cm        |   |   |      |              |              |

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| with remote management system per unit via wifi  |  |  |  |  |
| <b>Calibration Equipment Management System</b>   |  |  |  |  |
| Specifications:  |  |  |  |  |
| One (1) concurrent license (perpetual)   |  |  |  |  |
| end-users: three (3)   |  |  |  |  |
| centralized deployment   |  |  |  |  |
| unlimited individual accounts  |  |  |  |  |
| unlimited assets, users, groups  |  |  |  |  |
| manage schedules, documents, test standards  |  |  |  |  |
| automated email reminders  |  |  |  |  |
| 70+ standard reports   |  |  |  |  |
| deployed internally on SQL Server/Oracle   |  |  |  |  |
| includes test type packages: manual  |  |  |  |  |
| Pass/Fail, Switch Test, Test Omission,   |  |  |  |  |
| Task List and Pressure Safety  |  |  |  |  |
| On premise: Planned  |  |  |  |  |
| Maintenance/Work Order solution  |  |  |  |  |
| per block of 5 users   |  |  |  |  |
| supports planned maintenance tasks   |  |  |  |  |
| overlapping schedules  |  |  |  |  |
| ADHOC requests and work order management   |  |  |  |  |
| allows for Alternate Calibration Specs   |  |  |  |  |
| Parts and Inventory module   |  |  |  |  |
| easily import work to the core system  |  |  |  |  |
| allows users to automatically email reports on a calendar schedule to an unlimited number of recipients  |  |  |  |  |
| allows designated users to launch on-demand reports and create maintenance requests via secure web access  |  |  |  |  |
|  |  |  |  |  |
| Uncertainty Calculation:   |  |  |  |  |
| allows user to calculate an Expanded Uncertainty value for a given engineering unit and Coverage Factor (k), expressed in the desired number of significant figures  |  |  |  |  |
| the user can manipulate component values, add components or remove components from the list of values that are used to calculate the uncertainty. These values can be displayed on customized reports or viewed in the electronic record |  |  |  |  |
| document uncertainty contributors for instrument under test  |  |  |  |  |

|   |   |   |      |              |              |
|---|---|---|------|--------------|--------------|
| 8 | document uncertainty contributors for test standards used   | 1 | unit | 4,100,000.00 | 4,100,000.00 |
|   | calculate combined uncertainty  |   |      |              |              |
|   | present a list of tasks for maintenance or calibration related steps to be recorded on a calibration record   |   |      |              |              |
|   | easy to use utility that allows for upload of existing excel data   |   |      |              |              |
|   | create records for instruments, standards and loops   |   |      |              |              |
|   | Inclusions:   |   |      |              |              |
|   | Server specs:<br>-Oracle 9i release 9.2.0.5.0 or higher<br>-Microsoft SQL Server latest version (including all Editions, both x86 and x64)<br>-compatible with (VMware, Citrix, Terminal Server, etc.)<br>-Minimum of 16MB of RAM per user (20MB per user or more recommended)<br>-compatible with (e.g. Citrix Metaframe, Citrix Presentation Server, Citrix XenApp, etc.)                             |   |      |              |              |
|   | Desktop PC workstation specs:<br>Processor: minimum Core i7-10700F, 16mb cache, 8 cores 16 threads, 2.9GHz to 4.8 GHz<br>Operating System: minimum Windows 10 Home, 64-bit<br>GPU: minimum 6GB GDDR6<br>Memory: minimum 16GB, 1 x 16GB DDR4 RAM<br>Storage: minimum 512GB M.2 PCIe NVMe Solid State Drive<br>Office: MS Office Home & Student 2019 Licensed<br>with minimum 23.8in FHD Monitor, UPS/AVR |   |      |              |              |
|   | mobile workstation specs:<br>-minimum core i7-1260P (up to 4.7 GHz)<br>-minimum 16 GB DDR4-3200 MHz RAM (2 x 8 GB)<br>-minimum 1 TB NVMe M.2 SSD<br>-minimum 39.6 cm (15.6") diagonal, FHD (1920 x 1080), IPS, micro-edge, anti-glare, Low Blue Light, 300 nits, 100% sRGB<br>-with genuine OS  |   |      |              |              |
|   | compatible AVR and UPS  |   |      |              |              |

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|    | 24/7 annual support via phone/fax/email/web  |   |      |           |           |
|    | One (1) year warranty  |   |      |           |           |
|    | Free PMS within warranty period  |   |      |           |           |
|    | Training for four (4) end users at Manufacturer's Training Site, inclusive of all expenses   |   |      |           |           |
|    | <b>2023-03-0398 LUPEZ RD-HYDROPONICS</b>   |   |      |           |           |
| 9  | Access Tube Vacuum Pump  | 1 | unit | 17,680.00 | 17,680.00 |
|    | A hand vacuum pump with gauge and tubing adapter is used for applying vacuum to the tube for sample collection.  |   |      |           |           |
| 10 | Core Extractor 6" specimen size  | 1 | unit | 11,200.00 | 11,200.00 |
|    | Features:<br><br>No repeat drilling required due to damaged samples<br>Adjustable top screw offers a secure grip on the perimeter of the core<br>Best for removal of "stubborn" cores<br>Lock feature prevents damage from improper removal                            |   |      |           |           |
| 11 | Temperature / Humidity Data Logger w/ USB & Display with extra battery   | 1 | unit | 12,320.00 | 12,320.00 |
|    | Temperature Range -31°—176°F (-35°—80°C)<br>Accuracy Temperature: 0.55°C (1.04°F) typical (5—60°C)<br>Humidity: 2.25%RH typical (20—80%RH)<br>Resolution Temperature: 0.5°C (1°F)<br>Humidity: 0.5%RH<br>Memory Capacity 16,000+<br>Power Supply 1/2AA Lithium Battery |   |      |           |           |
| 12 | Digital Thermometer,   | 1 | unit | 5,000.00  | 5,000.00  |
|    | Temperature Range (-50°—300°C)<br>Accuracy ±1.8°F (±1.0°C)<br>Resolution 0.1°; 1° above 199.9° and below -19°<br>Display 3.5-digit LCD display with 0.25in (6.35mm) high digits<br>Probe Length 11.5in (292.1mm)<br>Power Supply 1.5v Battery                          |   |      |           |           |
| 13 | Soil pH and Moisture meter   | 1 | unit | 28,800.00 | 28,800.00 |



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|--|--|--|--|--|----------------------|
|  | Measures pH values from 3.5 to 8,<br>Measures soil moisture from 0 to 100 percent<br>Requires No chemical, distilled water, or outside electric power source<br>Numerous readings can be easily taken over large area<br>Conditioning film sold separately |  |  |  |                      |
|  | <b>Total:</b>  |  |  |  | <b>10,075,000.00</b> |