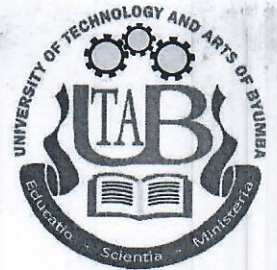


# UNIVERSITY OF TECHNOLOGY AND ARTS OF BYUMBA



**OFFICE OF THE VICE CHANCELLOR**

Post. Box: 25, Byumba, Gicumbi District  
Northern Province, Republic of Rwanda;

Phone: +250 - 789 350 05;

Email: [info@utab.ac.rw](mailto:info@utab.ac.rw)

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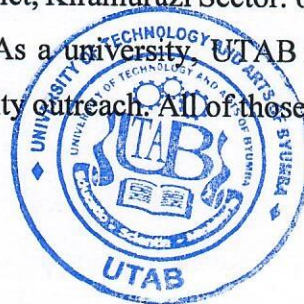
## **CALL FOR APPLICATION: SUPPLY OF MATERIALS AND EQUIPMENT NEEDED TO IMPLEMENT THE PROJECT FOR CAPITALIZING ON MARIGOLD BIO-PESTICIDE PROPERTIES TO LEVERAGE THE OUTPUT OF NATURAL PRODUCTS MADE IN RWANDA**

### **1. Introduction**

The University of Technology and Arts of Byumba (UTAB) is inviting qualified and experienced Companies/enterprises to apply for the supply of materials and equipment for its project on Capitalizing on Marigold Bio-Pesticide Properties to Leverage the Output of Natural Products Made in Rwanda. The successful bidder will play a crucial role in the implementation of the project for Capitalizing on Marigold Bio-Pesticide Properties to Leverage the Output of Natural Products Made in Rwanda by supplying the materials and equipment listed in the present call for application.

### **2. Background**

University of Technology and Arts of Byumba (TAB) is a fully accredited community-based university. It started as Institut Polytechnique de Byumba (IPB) and began teaching on 26<sup>th</sup> January 2006 in Byumba Sector, Gicumbi District, Northern Province, Rwanda. On 20th December 2015, IPB upgraded from the status of institute to that of university under the name of University of Technology and Arts of Byumba (UTAB). Currently, UTAB runs three faculties fully accredited by HEC. These include the Faculty of Social Sciences, Management and Development Studies (SSMDS), the Faculty of Education, and the Faculty of Agriculture, Environmental Management and Renewable Energy (FAEMRE). In addition, UTAB has Distance and Open Learning facility (DOLF) located in Gatsibo District, Kiramuruzi Sector. UTAB journey of more than 15 years has been long but very fulfilling. As a university, UTAB is engaged in different activities such as academic, research and community outreach. All of these activities aim



at raising the quality of education and social transformation. UTAB has planned to enhance researches aiming at increasing the agricultural production. This call for application aims to enhance quality research and service delivery at UTAB.

### **2.1.Vision of UTAB**

The vision of UTAB is to become a radiating university of academic and professional excellence for sustainable socio-economic development.

### **2.2.Mission of UTAB**

The mission of UTAB is:

- To provide quality higher education and community oriented research;
- To shape a skilled workforce in the domains of technology and arts;
- To promote a culture of excellence and innovation for quality service delivery.

### **3. Scope of Work**

The tender will encompass the supply of laboratory equipment, Computers and other equipment with special consideration as per the attached list. Interested applicants should ensure the supply of the product of good quality.



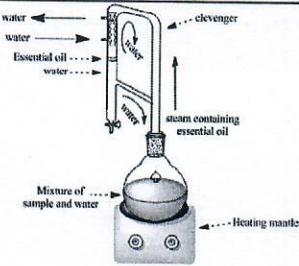
The scope of the work for this call for application includes the supply of laboratory equipment, Computers and other equipment with special consideration included in three lots and listed below:

#### **3.1.Lot 1: Laboratory Equipment**





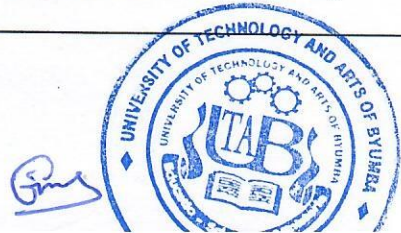


## 1. LOT1: LABORATORY EQUIPMENT


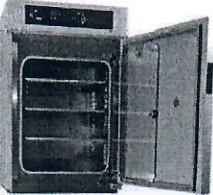
N°	Item	Detailed Technical specifications	Quantity required
1	Refractometer	 <ul style="list-style-type: none"> <li>● Scale Range: 1.440 to 1.520 ND refractive index</li> <li>● Resolution: 0.001 ND</li> <li>● Reference Temperature: 20°C</li> <li>● Length: 175 mm</li> <li>● Temperature compensation: 0 to 30°C.</li> <li>● Material body: Metal, glass and rubber</li> <li>● Dimension: 30 × 40 × 210 mm</li> <li>● Weight: 0.27 kg</li> </ul>	2
2	PH Meter	 <ul style="list-style-type: none"> <li>- PH Range: 0-14 unit</li> <li>- Accuracy: ±0.01 or ±0.02 pH units</li> <li>- Resolution: 0.01 or 0.001 pH</li> <li>- Temperature Range: 0-100°C</li> <li>- Electrode Type: Combination ( Glass or Solid)</li> <li>- Display: Digital</li> <li>- Power Source: Main power</li> <li>- Connectivity: Both ( USB or Bluetooth for data transfer).</li> </ul>	2
3	Clevenger Apparatus	 <ul style="list-style-type: none"> <li>- Material: Borosilicate glass</li> <li>- Capacity: 20000ml</li> <li>- Condenser: Liebig condenser</li> <li>- Water Inlet and Outlet:</li> <li>- Clamps and Supports:</li> </ul>	2



		<ul style="list-style-type: none"> <li>- Joint Size: 24/40 or 19/22</li> <li>- Graduation: Visible</li> <li>- Transparency: Yes</li> <li>- Color : Transparent</li> </ul>	
4	Electronic balance	 <ul style="list-style-type: none"> <li>- Capacity: 150g</li> <li>- Response Time: 5Sec</li> <li>- Repeatability: 0.05 mg</li> <li>- Minimum Display: 0.01mg</li> <li>- Response Time for Trace Measurements: 2Sec</li> <li>- Operating Temp: 5 to 40 Deg C</li> <li>- Linearity: +/-0.1 mg</li> <li>- Humidity Range: 20 to 85% RH</li> <li>- Pan Size: 91mm</li> <li>- Minimum Display: 0.01 mg</li> <li>- Power Source: Both (Powered by batteries, mains power).</li> </ul>	2
5	Fridge	 <ul style="list-style-type: none"> <li>● Accesories: Optional Icemaker IM4D</li> <li>● Air Clearances Back (in.): 1</li> <li>● Air Clearances Each Side (in.): 3/4</li> <li>● Air Clearances Top (in.): 1</li> <li>● Built-In: No</li> <li>● Case Color: Dark Grey</li> <li>● Total Capacity (cubic feet): 15-16 cu. ft.</li> <li>● Features: Dairy Compartment, Levelling Legs, NeverClean Condenser</li> <li>● Depth without Door Handle (in): 30.5</li> <li>● Case Depth without Door (in): 26.75</li> <li>● Colour: Stainless Steel</li> <li>● Depth: 32.1 - 34"</li> <li>● Depth with FF Door open 90 deg (in): 57</li> <li>● Door Handle Colour: Colour-Matched to Door</li> <li>● Door Handle Style: GE/GE Profile Standard</li> <li>● Door Swing: Shipped w/ Right-Hand Door Opening</li> <li>● Energy Star: Yes</li> </ul>	1

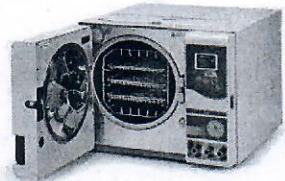



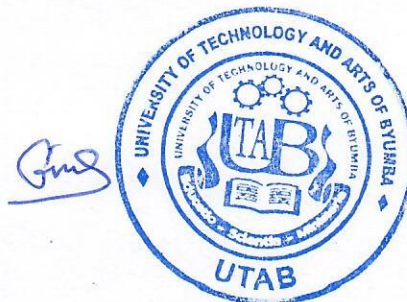


		<ul style="list-style-type: none"> <li>● Style: Top Freezer</li> <li>● Ice Maker: Ice Maker Ready</li> <li>● Freezer Cabinet Shelves: 1 Full Width Wire</li> <li>● Freezer Capacity (cubic feet): 4</li> <li>● Freezer Configuration: Side-Swing Door</li> <li>● Freezer Door Bins: 2 Fixed</li> <li>● Fresh Food Capacity (cubic feet): 12.6</li> <li>● Fresh Food Door Bins: 2 Adjustable White</li> <li>● Height: 60 - 65"</li> <li>● Height to Top of Case (in): 64.25</li> <li>● Interior Lighting: LED</li> <li>● Levelling System: 2-Point</li> <li>● Fresh Food Door Bins: 3</li> <li>● Number of Doors: 2</li> <li>● Fresh Food Cabinet Shelves: 2 Full-Width Glass</li> <li>● Refrigerant Type: R600</li> <li>● Reversible Doors: Yes</li> <li>● Fresh Food Cabinet Drawers: 2 Crispers</li> <li>● Defrost Type: Frost Free</li> <li>● Volts / Hertz / Amps: 120 v / 60 Hz / 15A</li> <li>● Width: 28"</li> <li>● ADA Compliant: Yes</li> </ul>	
6	Cool box containers for specimens	 <p>Model NO: HTLL-0611, Certification: CE, ISO 9001, Type: Cold Chain Box, Main Material: Polypropylene, Box Internal Size: 31.5*16*22.7cm, Insulation: PU Foam, Empty Capacity: 11L, Cold Source: Hard Ice Bricks or Soft Ice Gels, Category: Medical Cooler Box, Box External Size: 41*23.5*27.8cm, Empty Box Weight: 2.3kg, Usable Cold Space Capacity 5.5L.</p>	3
7	Incubator		1

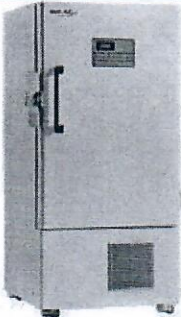
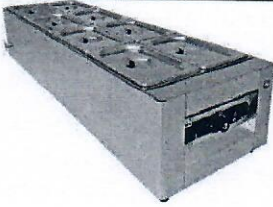


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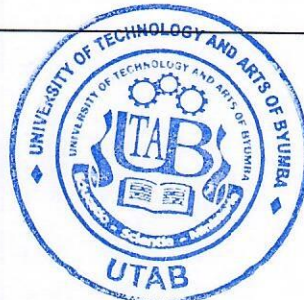
		<p>Model: BO-30F/BO-30FL, Capacity(L): 35L, Temp Range: RT+10°C~200°C(max300°C), Display Resolution: 0.1°C, Uniformity at 100°C: ±2.0°C, Heated to100°C: 25mins, Standard max number of shelves: 2(5), Max load per shelf: 20kg, NW: 43kg, Timing Range: 1-5999mins, Interior Dimension W*D*H(mm): 320×350×320, Exterior Dimension W*D*H(mm): 610×550×540, Electrical Requirement: AC220V,50Hz, Power Consumption: 900w</p>	
		 <p>Model: AH-21-B, Chamber volume total / usable: 22/21 L, Usable chamber dimensions Ø x D: 210 x 430 mm, Independent clean water tank volume: 6L, Independent waste water tank volume: 2.6 L, Exterior dimensions L x D x H: 560 x 660 x 425 mm, Exterior dimensions L x D x H: 560 x 660 x 425 mm, Maximum number of trays: 5, Trays dimensions: 190 x 350 mm, Frequency: 50/60 Hz, Adjustable sterilization temperature: 105 – 134 °C, Adjustable sterilization time: 1 – 250 min, Adjustable prevacuum pulses: 1 – 3, Adjustable drying time: 1 – 360 min, Max. pressure: 2,1 barg,</p>	
8	Autoclave		1
		 <p>Model: DM150-W , Zoom Magnification: 40X-1000X, Power Requirements: 5V</p> <p>Optional Battery Three AAA (Rechargeable), Sensor Type, CMOS, Sensor Optical Format: 1/4", Active Pixels: 2MP, Capture Resolution and Maximum Framerate: 30fps @ 2048x1536.</p>	
9	Digital Microscope		1


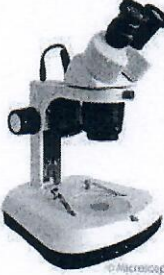
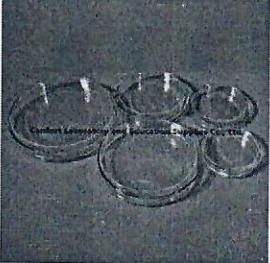




10	Freezer for conservation of antibiotics	 <p>Model: -86°C ULT Freezer Upright BFUR-86-302, Capacity: 188 L, Temperature Range: -40°C to -86°C, Ambient Temperature: 10°C ~ +32°C, Temperature Increment: 1°C, Defrosting: Manual, Cooling Type: Direct Cooling, Insulation Material: PURF, Refrigerant: Mixed-gas, Internal Dimension: 465x465x830 mm, Overall Dimension: 830x810x1607.5 mm, Package Size: 915x928x1818 mm, Drawers/Shelves: Stainless steel shelf/2, Interior: Stainless steel, Exterior: Color sprayed steel, Controller: Microprocessor, Digital display,</p> <p>Sensor: PTC, Compressor Brand/QTY: CUBIGEL/1, Evaporator: Submerged coil evaporator, Evaporator Material: Copper tube evaporator, Condenser: Copper tube and finned, Noise Level: 60 db, Alarm: High/low temperature, Sensor malfunction, Thermostat failure,</p> <p>Standard Accessories: Castor, Inner doorx3, Test hole 1/25 mm, Optional Accessories: Data logger, CO2 backup system, LN2 backup system, Temperature recorder, Storage racks and storage box, Weight (Net/Gross): 207 / 222 kg, Rated Power: 610 W, Power Consumption ( Kwh/24hrs ): 8.2, Rated Current A: 3.3, Power Supply: 220V, 50Hz.</p>	1
11	Bain marie	 <p>Material: Stainless Steel 304 Grade, Color:Silver, Size/Dimension: 72(L) x 25(W) x 30(H) Inch, Counter Shape: Rectangular, No. Of Shelves: 6 Shelves, Phase : Single Phase, Voltage: 3 KW.</p>	1

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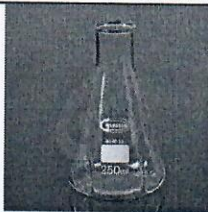


12	Laboratory Oven	 <ul style="list-style-type: none"> <li>● Model: OFA-32-8,</li> <li>● Pre-heat Chamber Technology – 4-zone heated air jacket</li> <li>● SmartSense™ Microprocessor PID Control Technology</li> <li>● Superior Insulation</li> <li>● DIN 12880 Class 3.1 Certified for Temperature Safety</li> <li>● Electrogalvanized steel body construction</li> <li>● Audible and visual alarms</li> <li>● volume: 32L</li> </ul>	1
13	Dissection Microscope	 <ul style="list-style-type: none"> <li>- Brand:</li> <li>- Magnification: total magnification of 10x and 20x ,</li> <li>- EyePieces: ranging from 10x to 20x</li> <li>- Objective Lenses: Zoom models, with typical magnifications ranging from 0.5x to 2x.</li> <li>- Working Distance: 90mm,</li> </ul>	2
14	pieces of glass petri dishes	 <ul style="list-style-type: none"> <li>- Brand: Pyrex® borosilicate Glass.</li> <li>- Size: Various size from 50mm to 150mm,</li> <li>- Height: 15mm to 30mm</li> <li>- Petri dishes come with a lid</li> <li>- Surface of a petri dish: flat and smooth.</li> <li>- Visible graduations</li> <li>- Good Rim,</li> </ul>	200

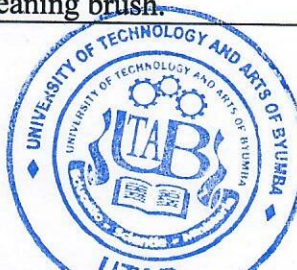
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		<ul style="list-style-type: none"> <li>- Chemical and temperature resistance,</li> <li>- Color: White , Transparent</li> </ul>	
15	Micropipettes	 <ul style="list-style-type: none"> <li>- Volume Range:P200 (20-200 <math>\mu</math>L), P200 (200-1000 <math>\mu</math>L)</li> <li>- Accuracy:<math>\pm</math>1% at 100 <math>\mu</math>L</li> <li>- Good Precision and adjustability</li> <li>- Mechanism: positive displacement micropipettes.</li> </ul>	10
16	Micropipette tips	 <ul style="list-style-type: none"> <li>- Brand: 4ES Transparent</li> <li>- Volume Range: from 0.1 <math>\mu</math>L to 200<math>\mu</math>L and from 200<math>\mu</math>L to 1000 <math>\mu</math>L</li> <li>- Material: Polypropylene</li> <li>- Packaging: packaged in racks or boxes</li> <li>- Good Compatibility</li> <li>- With filter</li> </ul>	50
18	Conical flask	 <ul style="list-style-type: none"> <li>- Brand : Pyrex® borosilicate glass</li> <li>- Material: Glass</li> <li>- Complies with DIN ISO 24450</li> <li>- Size: 50m ( 5Pcs), 100ml(8Pcs), 250ml(5Pcs), 500ml(2Pcs)</li> <li>- Accuracy: <math>\pm</math>0.1 mL or <math>\pm</math>0.5 mL</li> <li>- High resistance to chemical attack</li> <li>- White enamel graduations and marking spot</li> <li>- Graduated to capacity.</li> <li>- Brush :including 3pcs cleaning brush.</li> </ul>	20

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19	Measuring cylinders	 <ul style="list-style-type: none"> <li>- Brand: Pyrex®</li> <li>- Size: 5ml(2pcs), 10ml(2pcs), 25ml(2pcs) 50ml(5Pcs), 100ml(5Pcs), 250ml(4Pcs) for Lab Measuring Cylinders.</li> <li>- Material: Glass</li> <li>- With glass stirring rods</li> <li>- Color: White</li> <li>- Accuracy: <math>\pm 0.1</math> mL or <math>\pm 0.5</math> mL</li> <li>- Stopper: Glass Stopper</li> </ul>	20
20	Glass Beakers	 <ul style="list-style-type: none"> <li>- Brand: Pyrex® borosilicate Glass</li> <li>- Size: 50ml (3Pcs), 100ml(3Pcs), and 250ml(3Pcs).</li> <li>- Material: Glass</li> <li>- Color: White</li> <li>- A cylindrical container with a flat bottom used in lab equipment</li> </ul>	9
21	Glass bottle for Eos 50ml (Amber Glass)	 <p>-Glass dropper, size:50ml, amber color, sealable cap and euro dropper set black.</p>	30


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22	Glass bottle for Eos 100-250ml (Amber Glass)	 <p>-Glass dropper, size:100ml(30Pcs) and 250ml(20Pcs), amber color, sealable cap and euro dropper set black</p>	50
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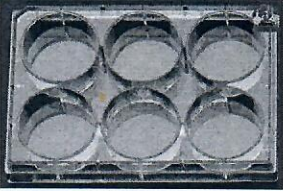
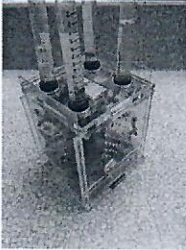
### 3.2.Lot2: Computers

N°	Item	Detailed Technical specifications	Quantity required
1	Computer	 <p>Brand: HP, Model Name: EliteBook x360 1030 G8, Screen Size: 13.3 Inches, Color: Silver, Hard Disk Size: 256 GB, CPU Model: Core i7 Family, Ram Memory Installed Size: 16 GB, Operating System: Windows 11, Special Feature: IPSYES802.11AC, Graphics Card: Integrated</p>	3

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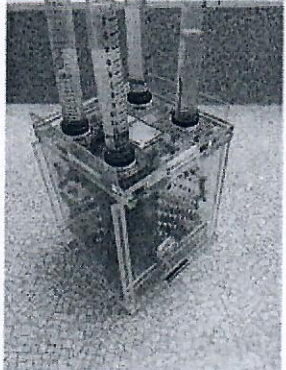

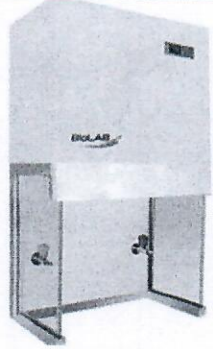
**3.3.Lot3: EQUIPMENT WITH SPECIAL CONSIDERATION**

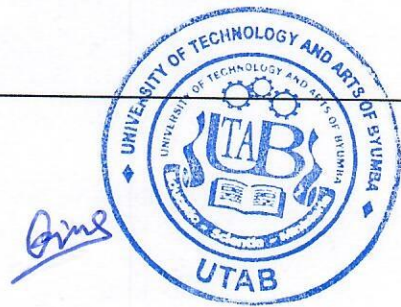
Name of the Project: Capitalizing on Marigold Bio-Pesticide Properties to Leverage the Output of Natural Products Made in Rwanda			
N°	Item	Detailed Technical specifications	Quantity required
1	Plexiglass boxes for insect bioassay trays	 <p>20 Cell plates of 6 Wells Insect Rearing, TC Treated, Sterile HSN: 3926 Specs: Made of high quality polystyrene. Available in sterilized form. Each of the Insect Rearing Cell Plate comes in Individual packing</p> <p>10 cell plates of 12 Well Insect Rearing, TC Treated, Sterile HSN: 3926 Specs: Made of high quality polystyrene. Available in sterilized form. Each of the Insect Rearing Cell Plate comes in Individual packing</p> <p>10 cell plates of 24 Well Insect Rearing, TC Treated, Sterile HSN: 3926 Specs: Made of high quality polystyrene. Available in sterilized form. Each of the Insect Rearing Cell Plate comes in Individual packing</p> <p>10 cell plates of 48 Well Insect Rearing, TC Treated, Sterile HSN: 3926 Specs: Made of high quality polystyrene. Available in sterilized form. Each of the Insect Rearing Cell Plate comes in Individual packing</p>	
2	Plexiglass boxes for fungus bioassay		3

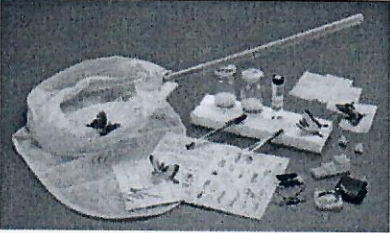
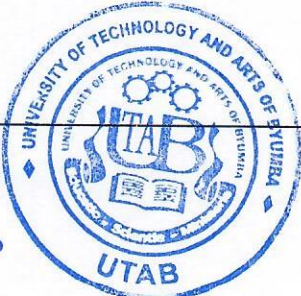
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<p>3</p>	<p>Plexiglass boxes for bacteria bioassay</p>		<p>3</p>
<p>4</p>	<p>Containers for hydroponic production</p>		<p>1</p>
<p>5</p>	<p>Laminar airflow cabinet for Bacteria</p>	 <p>Type Vertical: Laminar Flow</p> <p>Air Flow Velocity Average of 0.3~0.5m/s, air speed adjustable.</p> <p>HEPA Filter: 99.995% efficiency at 0.3μm</p> <p>Pre-filter: Polyester fiber, washable</p> <p>UV Lamp: 15Wx1 Emission of 253.7 nanometers</p> <p>illuminating Lamp: Fluorescent lamp 8W*1</p> <p>Display: LED Display</p>	<p>1</p>



		<p>Main Body Material: Cold-rolled steel with anti-bacteria powder coating</p> <p>Work Table Material: 304 stainless steel</p> <p>Internal Size: 630Wx375Dx615H mm</p> <p>External Size: 680Wx410Dx1160 mm</p> <p>Package Size: 840Wx560Dx1380H mm</p> <p>Gross Weight: 50kg</p> <p>Consumption: 160W</p> <p>Power Supply: AC220V±10%, 50/60 Hz; 110V±10%, 60Hz</p>	
6	kit for Insect collection materials	 <p>Complete instructional unit contains everything needed to collect, prepare and mount insect specimens of your choice. Illustrated 32-page booklet guides students through all the steps.</p> <p>Materials included:</p> <p>Collecting net</p> <p>Collecting jars with ethyl acetate</p> <p>Glassine envelopes</p> <p>Labels and pen</p> <p>Magnifier</p> 	6



		<p>Forceps</p> <p>Spreading board</p> <p>Pins and pinning block</p> <p>Fumidors</p> <p>Naphthalene</p> <p>Cone on pins</p> <p>Instruction booklet</p> <p>Insect storage box</p>	
7	kit for insect rearing materials	 <p>Material: Acrylic Sheet</p> <p>Size/Dimension: 30x30x30cm</p> <p>Color: Transparent</p> <p>Dimensions: 30x30x30cm</p> <p>Brand: MICROSIL</p>	1

#### 4. Submission requirements

Interested suppliers must provide a complete application, including the following information:

- Company name and contact details.
- Proof of registration and licensing as a supplier or business.

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- A brief overview of the company, including its history and experience in supplying required materials and equipment.
- References from previous clients.
- Proposed pricing and delivery terms. (Cost proposal)
- A timeline for delivery.

All applications must be submitted in a sealed envelope, clearly marked " Application for Supply of materials and equipment for the project for Capitalizing on Marigold Bio-Pesticide Properties to Leverage the Output of Natural Products Made in Rwanda ", and should be delivered to UTAB Receptionist Office.

The deadline for submission of applications is Tuesday, March 19<sup>th</sup>, 2024, at 12:00 which is the same date for the opening at 12:30. Late applications will not be considered.

#### **5. Evaluation and selection criteria**

UTAB will evaluate all submitted applications based on the following criteria:

- Price competitiveness.
- Quality and durability of the proposed materials (reference to the specifications).
- Registration Certificate as a company
- Tax Clearance Certificate
- Past performance and references.

#### **6. Contact Information**

For inquiries or clarifications related to this call for applications, please contact:

**Mr. BIZIMUNGU Jean Baptiste, Procurement Officer, Phone number: 0788593256**

#### **7. Disclaimer**

UTAB reserves the right to accept or reject any or all applications and to cancel the application process without incurring any liability. The University of Technology and Arts of Byumba





(UTAB) looks forward to receiving your applications and working with a contractor who shares our commitment to good service delivery and sustainable development.

Done at Byumba, 8<sup>th</sup> March 2024

**Fr. Dr. MUNANA Gilbert, O.P**

**8. Vice Chancellor**

