

**SUSTAINABLE PRODUCTION OF MEDICATED SOAP FROM SOME AVAILABLE  
PLANT BIORESOURCES IN KATSINA STATE**

**A RESEARCH PROPOSAL SUBMITTED TO NATIONAL SCIENCE AND  
ENGINEERING INFRASTRUCTURE (NASENI)  
BUDGET**

<b>Budget for Bioactive Compound Extraction &amp; Medicated Herbal Soap Formulation</b>	
<b>Description</b>	<b>Total (₦)</b>
<b>1.0 Personnel &amp; Training</b>	
1.1 Principal <i>Investigator</i>	₦700,000
1.2 Team members 4*337,500	₦1,350,000
1.3 Research assistants/lab technicians (hours x rate)-3*200,000-	₦600,000
1.4 Training/workshop for sensory evaluation	₦350,000
1.5 Subtotal:	₦3,000,000
 <b>2.0 Raw Materials &amp; Supplies</b>	
2.1 Plant materials (endemic plants) — species x 1 kg each @ ₦28,000 per kg	₦140,000
2.2 Chemicals & reagents	₦750,000
2.3 Solvents (ethanol, water, etc.)	₦400,000
2.4 Glycerine soap base — 10 kg @ ₦9,500 per kg	₦95,000
2.5 Extractants (methanol, acetone, etc.)	₦400,000
2.6 Disinfectants & cleaning agents	₦150,000
2.7 Laboratory glassware & consumables	₦455,000
2.8 Beakers, test tubes, petri dishes, pipettes, filters	₦235,000
2.9 Disposable gloves, masks, lab coats	₦193,000
Subtotal:	₦2,818,000
 <b>3. Equipment &amp; Instruments</b>	
3.1 Rotary evaporator (if available) or alternative extraction equipment	₦1,050,000
3.2 pH meter calibration solutions	₦95,000
3.3 Viscosity meter, sensory evaluation tools	₦330,000
3.4 Incubator, oven, or drying chamber	₦550,000
Subtotal:	₦2,025,000
 <b>4. Laboratory &amp; Facility Usage</b>	
4.1 Laboratory space rental (if applicable)	₦200,000

<b>4.2 Utilities (electricity, water)</b>	<b>₦200,000</b>
<b>Subtotal:</b>	<b>₦400,000</b>
 <b>5. Analytical &amp; Microbiological Testing</b>	
<b>5.1 Microbial culture media and supplies</b>	<b>₦300,000</b>
<b>5.2 Antimicrobial testing kits</b>	<b>₦550,000</b>
<b>5.3 External laboratory testing (if outsourced)</b>	<b>₦350,000</b>
<b>Subtotal:</b>	<b>₦1,200,000</b>
 <b>6. Data Analysis &amp; Documentation</b>	
<b>6.1 Software licenses (SPSS, GraphPad, etc.)</b>	<b>₦115,270</b>
<b>6.2 Printing and documentation</b>	<b>₦105,000</b>
<b>Subtotal:</b>	<b>₦220,270</b>
 <b>7. Miscellaneous &amp; Contingency</b>	
<b>7.1 Transportation of samples</b>	<b>₦241,581</b>
<b>7.2 Unexpected expenses (10% of total budget)</b>	<b>₦322,109</b>
<b>Subtotal:</b>	<b>₦563,690</b>
 <b>Total Estimated Budget:</b>	<b>₦9,663,270</b>
 <b>VAT (7.5%)</b>	<b>₦767,022</b>
 <b>Grand Total</b>	<b>₦10,993,982</b>