

# Robert Kariuki Wang'ombe

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## Sustainability Enthusiast and Organic Agri-Inputs Entrepreneur.

- ✓ **ORGANIC AGRI-INPUTS:** Founder of Shamba Mtaani and Essentia Kanan, dealing in Organic Soil and Crop inputs including Organic Pest Control, Organic Fertilizers, Soil Amendments and Soil Sampling, Testing and Consulting Services.
- ✓ **ENVIRONMENTALIST:** NEMA Environmental Impact Assessment and Audit expert, Experience in waste management especially conversion of organic waste to fertilizer and organic soil amendments.

## AREAS OF EXPERTISE

- Product Processing and Production Management
- Soil Fertility Management and Regenerative Agriculture
- Organic Waste Management and Composting
- Environmental Impact Assessment and Audits
- Business Management & Development
- Strategic & Tactical Planning

## PROFESSIONAL EXPERTISE

**2015 to current: Entrepreneur at Essentia Kanan Ltd.**

Essentia Kanan Ltd is a firm involved in sourcing, verifying and promoting **Bio-Organic Fertilizers, Soil Amendments** and **Bio-Organic Pest and Disease Control Products**.

**Soil Sampling and Testing Services**, consultancy services to abattoirs, food processing firms and livestock farmers to add value to their waste through rapid composting to fertilizers or organic soil amendments which can be branded and commercialized or used at their local farms.

**2018 April to June:** Consulted as an **Environmentalist and Organic Waste and Waste Water expert** for the **Nairobi Metropolitan Services Improvement Project (NaMSIP)** under ACAL Consulting Kenya.

**2013: 2014:** Development of an **Organic Fertilizer Production Unit** for Ngare Narok Meat Industries, Rumuruti.

**2012: 2013:** Team member for conducting **Training Needs Assessment (TNA)** for **KEMRI (Kenya Medical Research Institute)** staff at their centers countrywide.

**2012 January: Post Project Environmental Impact Assessment** for Emergency drought intervention project by the IRC (International Rescue Committee) in Turkana County, Kenya. Project involved water trucking, water infrastructure installation and repair and hygiene/sanitation promotion. The EIA evaluated the sustainability and environment/ social economic impacts of the project to the beneficiary community.

**2011/January 2012:** Development of an **Effluent Management Plan for Multimedia University College** (Nairobi, Kenya), as per the Water Resources Management Authority (WARMA) requirements for wastewater treatment and disposal.

**2010/2011:** Team member for various studies carried out by the **Government Training Institute (Mombasa)** for various organizations including Kenya rural roads authority (KERRA), Ministry of Youth, Kenya Electricity Transmission Company (KETRACO). Was responsible for field data collection tools design and data analysis and presentation.

**2010:** Team Member, formulation of an **Environmental Policy and Human Resource Manual for Embu Water and Sanitation Company (EWASCO)**, done by Muiria Environmental and Human resource consultants.

**2009-Continuing:** Carrying out **Environmental Impact Assessments** for the construction of residential, institutional and commercial buildings in Mombasa, Kilifi, Nairobi, Nyahururu, Nakuru and Ongata Rongai towns in Kenya.

**2009 January to July: Environmental Consultant. - Kigali Rwanda.**

- Assistant consultant for the **Ministry of Agriculture (Rural Sector Support Programme) in a project for safe disposal of over 70 tonnes of expired pesticides and fertilizers**. Personally carried out the materials screening and hazard description, mode of disposal and disposal facility design, the environmental management plan, social impact analysis, the supervision of the disposal activity and post activity analysis and report preparation.
- Team member for an Environmental Impact Assessment, presented and approved by the **Rwanda Environmental Management Authority for Gasabo Technical Institute, Kigali Rwanda**.
- Designed a **WasteWater Treatment Facility for an Abattoir**, to achieve acceptable waste water quality standards prior to release to a wetland.

**2008 April to October: Project Manager Nairobi Dam Water Hyacinth Removal and Composting Project**, by Effective Microorganisms Research Organization (EMRO), Nairobi.

- Coordination and supervising the daily operations of the project.
- Management of the workforce which included the EMRO staff and prisoners from the Nairobi west prisons who were collaborating in the project.
- Coordinating and liaising with the relevant stakeholders in the Environmental issues that related to the project Activities.
- Determining the assay conducted to determine hyacinth's suitability for use as compost.
- Determining analysis of subsequent composted material for assessment of nutrient content and suitability of application as an organic fertilizer.

**2005 October – 2008 April: Production Manager - EM Technologies Limited.**

- Developed a production and inventory monitoring system for stocks control.
- Developed job descriptions for production department staff, improving efficiency and quality management.
- Setting Up of a Quality System Manual.

- Set up a laboratory for research and development and quality control.
- Led the development of an organic fertilizer, composting and sewage management products. Including the registration of the products' trademarks.
- Involved in marketing of company products through consulting in wastewater management and developing product application proposals in wastewater management to the clients.
- Led the carrying out of an Environmental Impact Assessment of the lead product in its application for wastewater management at the Embu municipal wastewater treatment facility. Resulted in the approval of the product for wastewater management in Kenya by the National Environmental management Authority (NEMA).

## EDUCATION

2008: Kenya National Cleaner Production Centre, Nairobi Kenya  
***Certificate in Environmental Impact Assessments and Audits***

2000-2005: Moi University, Eldoret, Kenya.  
***Bachelor of Technology (B.Tec) Degree in Chemical and Process Engineering (second class honors, upper division)***

### References:

Magdalene Wanjugu.

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