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Water Filtration Systems and Agricultural Sustainability in Rural Uganda: An Ethnographic Study

Namugenyi Namukonde[1], **Kisa Mugerwa**[2], **Sserunkuma Okumu**[3]

[1] Makerere University, Kampala

[2] Department of Advanced Studies, Makerere University, Kampala

[3] Department of Interdisciplinary Studies, Makerere University Business School (MUBS)

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Correspondence: nnamukonde@gmail.com

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Author notes

Namugenyi Namukonde is affiliated with Makerere University, Kampala and focuses on Arts & Humanities research in Africa.

Kisa Mugerwa is affiliated with Department of Advanced Studies, Makerere University, Kampala and focuses on Arts & Humanities research in Africa.

Sserunkuma Okumu is affiliated with Department of Interdisciplinary Studies, Makerere University Business School (MUBS) and focuses on Arts & Humanities research in Africa.

Abstract

Water filtration systems play a crucial role in improving agricultural productivity in rural Uganda by reducing waterborne diseases and ensuring safe drinking water for farmers. The study employed ethnographic methods including participant observation, semi-structured interviews, and focus group discussions with farmers in selected districts across Uganda to explore perceptions, experiences, and challenges related to water filtration systems. A significant proportion of farmers (75%) reported adopting at least one type of water filtration system. Key themes emerged around the perceived health benefits and cost-effectiveness of these systems. Farmers in rural Uganda demonstrate strong interest in integrating water filtration systems into their agricultural practices, highlighting the need for continued support to enhance adoption rates and sustainability. Local governments should prioritise community-based initiatives to promote education on water filtration system benefits and provide financial incentives to encourage wider uptake. Water Filtration Systems, Agricultural Sustainability, Rural Uganda, Ethnographic Study

Keywords: *African Geography, Rural Development, Ethnography, Sustainability, Community Participation, Participatory Action Research, Anthropology*

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

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