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| Journal Name: | [**Archives of Current Research International**](https://journalacri.com/index.php/ACRI) |
| Manuscript Number: | **Ms\_ACRI\_138801** |
| Title of the Manuscript: | **Comparative assessment of potable water quality across different farm household groups** |
| Type of the Article |  |

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| PART 1: Comments | | |
|  | Reviewer’s comment **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | Author’s Feedback *(It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This study addresses a critical public health issue by evaluating disparities in potable water quality between tribal and non-tribal farm households in Assam, India. The findings highlight significant gaps in water safety practices, particularly among tribal communities, and underscore the need for targeted interventions to mitigate waterborne diseases. The research contributes to the Sustainable Development Goals (SDG 6 and 11) by providing empirical evidence on rural water insecurity and advocating for improved infrastructure and hygiene education. Its focus on microbiological contamination and household-level practices makes it relevant for policymakers, public health professionals, and researchers working on water quality in low-resource settings.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | **The title is clear and reflects the study’s focus. However, to enhance specificity, consider: "Microbiological Assessment and Disparities in Potable Water Quality Among Tribal and Non-Tribal Farm Households in Assam, India"** |  |
| Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here. | **The abstract succinctly summarizes the study’s objectives, methods, and key findings. To improve it: Delete: Redundant phrases like "as they are the feeders of the population"**  **(last sentence of Abstract).** |  |
| Is the manuscript scientifically, correct? Please write here. | The manuscript is scientifically robust, with appropriate methods (Standard Plate Count Technique) and clear results. However:  Clarify: Why only 36 water samples were tested microbiologically despite surveying 100 households.  Justify: The choice of 72-hour incubation for bacterial counts, as some standards recommend 24–48 hours. |  |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | References are relevant but could be expanded:  Add: Recent studies on water quality in Northeast India (e.g., Bhattacharjee et al., 2022).  Include: WHO guidelines for safe water storage (e.g., WHO, 2017). |  |
| Is the language/English quality of the article suitable for scholarly communications? | The language is generally clear but has minor grammatical errors (e.g., "Very few percent were found" "Very few respondents"). A professional proofread is recommended. |  |
| Optional/General comments | **Strengths: Strong methodology, relevant findings, and alignment with SDGs.**  **Areas for Improvement: Clarify sample size rationale, expand references, and polish language.** |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

**Mordecai Oweibia Dfilm, Bayelsa Medical University, Nigeria**