

REVIEWER'S REPORT

Manuscript No.: IJAR- 57038

Title: A contribution to resolving the issues surrounding the Founkama micro-algues in the municipality of Faranah, Guinea.

Recommendation:

Accept as it is

Accept after minor revision

Accept after major revision

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality		✓		
Clarity			✓	
Significance			✓	

Reviewer Name: **ANAPANA GOPAL**

Reviewer's Comment for Publication.

General Comments

The manuscript presents a technical and applied study focusing on the rehabilitation and redesign of the Founkama micro-dam in Guinea. The topic is highly relevant in the context of water resource management, climate change adaptation, and agricultural development in West Africa.

The study demonstrates practical significance, combining climatic, hydrological, and engineering data to propose a new dam design. However, the manuscript suffers from minor issues in language clarity, structure, and scientific presentation, which significantly affect readability and academic quality.

Substantial revision is required before the manuscript can be considered for publication.

Content and Originality

- The study addresses a locally important and applied engineering problem, which adds value.
- It integrates:
 - Climatic data
 - Hydrological analysis
 - Engineering design parameters
- The work has moderate originality:
 - It is primarily a case study and technical proposal, not a novel methodological contribution.
 - No new modeling approach or innovation in dam engineering is presented.
- Strength:
 - Strong contextual relevance for Guinea and similar regions.
- Weakness:
 - Limited critical comparison with other similar dam rehabilitation projects.
 - Lack of clear research questions or hypotheses.

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Suggestion:

- Clearly define research objectives and novelty.
- Add comparative analysis with similar micro-dam projects.
- Strengthen the discussion with broader implications.

Technical Quality

- Strengths:
 - Use of multidisciplinary data (climate, soil, hydrology, topography).
 - Inclusion of design parameters (dam height, spillway capacity, reservoir volume).
- Weaknesses:
 - Methodology is not rigorously described:
 - Hydrological models (ORSTOM, CIEH) are mentioned but not explained.
 - Lack of:
 - Validation of calculations
 - Sensitivity analysis
 - Error margins or uncertainty discussion
 - No geotechnical testing results, though recommendations are made.
 - Hydraulic calculations are not explicitly shown.

Suggestion:

- Provide detailed equations and calculation steps.
- Include model justification and assumptions.
- Add validation or comparison with existing standards.
- Include uncertainty analysis.

Language and Presentation

- The manuscript has significant language and formatting issues:
 - Long, complex sentences reduce clarity.
 - Typographical errors (e.g., missing spaces, merged words like “dry seasona critical issue”).
 - Inconsistent capitalization and terminology.
- Some sections appear poorly edited or directly translated, affecting readability.

Examples:

- “seasona critical issue” → missing space
- “mustreach the bedrock” → spacing error
- Repetitive phrasing in several paragraphs

Suggestion:

- Perform professional English proofreading/editing.
- Improve:
 - Sentence structure
 - Technical clarity
 - Consistency in terminology

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Structure and Organization

- The manuscript includes key sections:
 - Abstract
 - Introduction
 - Study area
 - Methods
 - Results
 - Discussion
 - Conclusion
- However, minor issues exist:
 - Excessive length and redundancy, especially in background sections.
 - Poor separation between:
 - Methods and results
 - Results and discussion
 - Figures and tables:
 - Not well integrated into the text
 - Lack proper captions and referencing
 - Some sections (e.g., ".....") appear incomplete or placeholders.

Suggestion:

- Streamline the Introduction and study area description.
- Clearly separate:
 - *Methodology*
 - *Results*
 - *Discussion*
- Remove redundant or placeholder content.
- Ensure all figures/tables are:
 - Properly labeled
 - Cited in the text

References and Citations

- Strengths:
 - References are regionally relevant.
 - Inclusion of reports and grey literature is appropriate for applied studies.
- Weaknesses:
 - Citation style is inconsistent.
 - Some references are:
 - Old or not recent
 - Poorly formatted (capitalization, spacing issues)
 - Limited use of recent peer-reviewed international literature.

Suggestion:

- Use a consistent citation format (APA/Harvard).
- Add recent references (last 5–10 years) in:
 - Hydrology
 - Climate adaptation
 - Small dam engineering
- Verify all bibliographic details.

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Overall Recommendation

The manuscript presents a valuable applied case study with practical implications for water management and agriculture. However, it requires minor revisions in:

- Language and readability
- Methodological clarity
- Structural organization
- Scientific depth

Final Decision:

Acceptable with **Minor revision**.