

## REVIEWER'S REPORT

Manuscript No.: IJAR-51642

Date: 15/5/2025

**Title: Water Optimization in Large-Scale Infrastructure Interventions in Colombia: A Perspective from Waste Management**

### 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: Dr Ahmed M. Saqr

Date: 15/5/2025

### Reviewer's Comment for Publication.

*(To be published with the manuscript in the journal)*

*The reviewer is requested to provide a brief comment (3-4 lines) highlighting the significance, strengths, or key insights of the manuscript. This comment will be Displayed in the journal publication alongside with the reviewers name.*

The manuscript addresses an important topic by exploring the integration of waste management strategies to optimize water use in large-scale infrastructure projects in Colombia. Its focus on sustainable resource management is timely and relevant, and the paper highlights the potential benefits of coordinated policy approaches. The discussion underscores the need for holistic planning in infrastructure development to achieve environmental and operational efficiencies.

### Detailed Reviewer's Report

#### 1. Excessive Brevity and Lack of Depth

***The manuscript is extremely short and concise, providing only a high-level overview of the topic without sufficient detail, analysis, or discussion. Key sections such as methodology, case study analysis, and quantitative assessment are missing, which prevents a comprehensive***

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*understanding of how the proposed guidelines would be implemented or evaluated in practice.*

### *2. Absence of Empirical Evidence or Original Research*

*The article does not present original data, case studies, or empirical analysis to support its claims. While it references national experiences and existing literature, it fails to provide concrete examples, comparative results, or measurable outcomes demonstrating the effectiveness of integrating waste management for water optimization in Colombian infrastructure projects.*

### *3. Limited Practical Guidance and Generalized Recommendations*

*The proposed guidelines remain generic and lack actionable detail tailored to the Colombian context or specific types of infrastructure interventions. There is no discussion of potential barriers, cost-benefit considerations, or step-by-step implementation strategies, which limits the manuscript's value for practitioners, policymakers, or researchers seeking to apply its recommendations.*