

## Review of: "Effective use of Waste Materials: A Case Study of Utilization of Fly Ash in Flexible Pavement Structures"

Jarnail Singh<sup>1</sup>

1 Chandigarh University

Potential competing interests: No potential competing interests to declare.

Several following concerns need to be addressed before it can proceed to publication.

**Clarification on Methodology**: While the paper effectively summarizes the findings of various studies, it would benefit from providing more information on the methodologies employed in these studies. Readers would benefit from understanding the experimental setups, testing procedures, and any limitations associated with the research methodologies used in the reviewed studies.

**Quantitative Analysis**: The paper would be strengthened by including more quantitative analysis of the findings presented. Providing numerical data, such as specific resilient modulus values or percentages of improvement with fly ash addition, would enhance the credibility and depth of the review.

**Discussion of Contradictory Findings**: There are instances where contradictory findings are mentioned in the reviewed studies, such as the impact of fly ash on resilient modulus in different soil types. It would be helpful to provide a more indepth discussion of these contradictions and explore potential reasons for discrepancies in results.

**Integration of Recommendations**: While the paper offers valuable recommendations for future research, these suggestions could be more seamlessly integrated into the discussion. Linking each recommendation to specific gaps identified in the literature review would strengthen the paper's argument and provide a clearer roadmap for future research directions.

**Clarity in Conclusion**: The conclusion section could be strengthened by providing a more concise summary of the key findings and their implications for pavement engineering practice. Clear, actionable takeaways would help readers understand the significance of the reviewed research and its potential impact on future projects.

Addressing these points would enhance the overall quality and coherence of the paper, making it more suitable for publication in a peer-reviewed journal.

Qeios ID: ZD76ER · https://doi.org/10.32388/ZD76ER