

Review of: "Enhancing Soil Stabilization in Soft Soils Through The Addition of Sand to Soil-Cement Piles: a Comprehensive Study"

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Potential competing interests: No potential competing interests to declare.

I have gone through the paper and it describes the work on "Enhancing Soil Stabilization in Soft Soils through the Addition of Sand to Soil-Cement Piles: a Comprehensive Study". The reviewer appreciates the workload undertaken by the authors. I found out that the similarity is uncanny, but there is a marginal difference with it. But still, the author needs to work a lot on your paper to be considered for publication. Here are some general comments, and for more specific ones, please take a look at the annotated version that I uploaded for you.

- 1. The write-up is very poor, and the knowledge of research language is missing. Each statement should be provided with proper references. However, the article needs a thorough language edit. Please revise it.
- 2. The abstract has to be rewritten. It is requested that the author, for ECO-CSB or ECO-CSSB additives, kindly write the full form at first use and then abbreviate it. Please provide a list of abbreviations.
- 3. The section by the name "background" has to be provided with suitable literature available beyond using all the stabilization techniques.
- 4. The nomenclature has to be improved, and a table has to be provided for the mixture variations.
- 5. The author is requested to provide the basic soil testing details in a new table and explain why the soil has to be stabilized with the techniques. Kindly explain the motive and novelty of the work.
- 6. It is seen that an 18-day curing period has been used for UCS testing. Kindly explain why the 18-day curing period has been considered, since ASTM 2166 suggests 7- and 14-day curing periods. Also provide the code/reference details referred to for the mentioned days,
- 7. The discussion must go much deeper by providing proper evidence for the strength evaluation. The research elaborates only the UCS strength is the only factor to optimise the admixtures' content.
- 8. The author mentioned the optimal composition is found to be 20% sand and 25% cement with the addition of a small



amount of additives. What was the small amount? It is supposed to clarify each statement before editing.

- 9. Does the author think 25% of cement is economical? Kindly clarify.
- 10. 20% of sand is also supposed to be very high; the author has to provide the details of the sand used and also clarify why so much high content is suggested?

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