

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 find the use of additives to improve soil quality a very interesting topic. Congratulations on the document. Some details that can be improved:

The title of the document should contain the word "additive," as it relates to the main outcome of the project.

The abbreviations in the Abstract were not defined in their first mention: ECO-CSB and ECO-CSSB. I understand that they are additives, but it would be a good idea to define their acronyms in the Abstract.

Define in the introduction the concept of "soil stabilization": What is it? What is it for? It is true that in the context of the document, this concept is clarified, but for someone who is not familiar with the concept, it would be a good idea to clarify it from the first paragraph of the Introduction section.

The last paragraph of the introduction uses the expression "In conclusion"; this expression should be used in the "Conclusions" section (use: The aim of this study ...).

In the operational mechanism of additives, I recommend placing chemical equations expressly (A+B ---C D) instead of text

The content of the cement variation expressed in density units is incorrect.

The conclusions use the concept of "optimizing." I did not see in the document any optimization technique (e.g., response surface method).

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