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.

The study titled "Enhancing Soil Stabilization in Soft Soils Through The Addition of Sand to Soil-Cement Piles: a Comprehensive Study" presents a novel approach to improving soil stabilization techniques. The research, conducted at Vietnam National University Ho Chi Minh City under the guidance of Dao Phu-Yen, introduces an economical and environmentally friendly solution to the issue of weak soil stabilization in saline conditions.

Methodology and Materials: Utilizing a mixture of soil-cement with the addition of sand and ECO-CSB or ECO-CSSB additives, the study investigates the mixture's enhanced properties in comparison to traditional methods.

Results: Findings indicate a 30% reduction in cement use while retaining uniaxial compressive strength, showcasing a balance between cost-efficiency and performance.

Implications: The method offers substantial benefits for engineering applications, especially in regions with saline-contaminated soils, and suggests a step forward in eco-friendly construction practices.

Future Directions: Potential applications and further research are suggested, aiming to refine this technique for broader, practical implementation in civil engineering projects.