

عنوان مقاله:

EFFECTS OF IMPROVING LOOSE SOILS ON THE SETTLEMENT CONTROL OF FOUNDATIONS BY HIGH PRESSURE INJECTION

محل انتشار:

نهمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1403)

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خلاصه مقاله:

In this research, laboratory, field, and analysis investigations were carried out for a raft foundation with unallowable differential and total settlements to determine the performance of the jet grouting method in stabilizing problematic soils. Investigating the use of jet grouting columns in loose marl soil with high settlement potential in southwest Iran has been done for the first time in this paper. The main novelty of the paper is about verification of the laboratory test for improving the marl soil of Khuzestan with inclined jet columns utilizing the Plaxis 2D software. Seismic analysis results with DEEPSOIL depict that jet grouting decreases the maximum ground displacement value from 84 mm to 19 mm.

کلمات کلیدی:

Ground Improvement, Mat Foundations, Inclined Jet Grouting Columns

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