

Research regarding bearing assessment method of improved ground

[Point]

We performed centrifugal test and the analysis using finite element method, to examine ground improvement efficiency, for the case of the improvement of thick high layer of soft ground using anchor materials to use the surface as supporting ground of foundation. As a result, regarding the behaviour toward vertical load, improvement effect by anchor materials was verified, and length and spacing of anchor materials gives large effect on improvement effect, was grasped. However, clear group effects of anchor materials interaction and effect with ground weren't assessed. In addition, by these results and references, we examined assessment method of improvement effect for the case of improving surface of soft ground with consolidation materials and anchor materials, and organized.

Keyword : improved ground, consolidation materials, anchor materials, group effect