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## Study on the engineering properties of the mucky soft soil in Guizhou, China

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The mucky soft soil foundation manifest the characteristic of low bearing capacity and great deformation, especially for the non-uniform deformation. The period of deformation steady can last for several years. As bridge is built in this soft soil area, the non-uniform settlement of bridge foundation and approach embankment is significant and would cause the structure failure and tilt. The mucky soft soil which is distributed widely in Guizhou, China, was studied as the bridge foundation in this paper. The physical and mechanical properties as well as the mineral and chemical components were examined to get a deeper understanding on its engineering properties. The studies are expected to provide some valuable reference in the engineering application in the mucky soft soil area.

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