

[Home](#) [Innovative Infrastructure Solutions](#) [Article](#)

Experimental investigation on stabilization of subgrade soil using bio-enzymatic additive for pavement construction

Technical paper Published: 07 February 2022 7, Article number: 137 (2022)



Innovative Infrastructure
Solutions

[Aims and scope](#)[Submit manuscript](#)

[Prachi Kushwaha](#), [Avanish Singh Chauhan](#)  & [B. L. Swami](#)

 222 Accesses  3 Citations [Explore all metrics](#) →

[Cite this article](#)

Abstract

Regions with soil having poor bearing capacity suffer from increased construction cost and waste generation due to the replacement of soil. Bio-enzymes help stabilize the soil by acting as a catalyst in strengthening such soils. Effects of these enzymes vary based on soil properties and application rates. Thus application rates need to be determined for a soil type exclusively. In this study, clayey soil with intermediate plasticity was treated with different dosages of Terrazyme in order to determine the optimum dosage of the enzyme. Results