

Department : Civil

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Group No: 11

Guided By

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Project Title

IDENTIFY THE EFFECT OF SUBGRADE SOIL ON DAMAGE OF ROADWAYS.

Abstract:

Failure of the pavements especially in the tropical and subtropical region due to effect of subgrade soil is very common thing in the present century. Present study is focused on Radhanpur-Samkhyali highway(NH15) with the geographical location - 23°42'59.5" N 71°05'15.0"E in india. Which is suffering the same problem. The foremost objective of the study is to stabilize the subgrade soil in incorporating some pozzolanic materials and increase the overall strength and load of the subgrade soil. For the betterment of road construction soil samples have been collected randomly. Throughout the study area from 3 to 10m interval and 10 to 60cm depth. On the collected 8 samples the specific gravity of soil has been performed and the result significantly varies from 2.22 to 2.39 with an average of 2.31. for evaluating shear strength compaction and bearing capacity of soil. Direct shear test, CBR test and standard compaction test will be performed in laboratory and on the basis of testing result the further recommendation will be provided.

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