Evaluating Suitability of Soil Stabilization Methods for Local Road Construction Industry

H.M.S.M. Herath, M.A.W. Kumara

Abstract

Soil stabilization is not using in local road construction industry in major scale. Various reasons affects to non popularity and initial part this paper presents the result of questionnaire survey among the professionals who practice in road construction industry. Soil sample collected from different places, used to determine the engineering properties (Sieve Analysis, Liquid Limit (LL), Plastic Limit (PL), California Bearing Ration (CBR) and Unconfined Compressive Strength (UCS)). Same soil has being used to determine the properties after stabilizing according to the available guideline, with locally available stabilizers (Cement and Lime). Laboratory test results indicates that both stabilizer improve soil properties in considerable amount. Suitable stabilized criteria and quality controlling measures is to be established.
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