



Comparison of Permeability in Constant Head and Falling Head Method: Comparison of Permeability in Constant Head and Falling Head Method and Establishment of Empirical Relationship between them

By Sadia Afrin Asha

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The study was done with Sylhet Sand. Same soil sample was prepared by air pluviation from different height and same soil sample was prepared by tamping. Each time the soil density was expected to be changed. After this treatment, the specimens that were prepared by this soil sample subjected to constant head and variable head permeability test. At first soil's specific gravity and maximum and minimum density was measured and during permeability tests, sample's void ratio, density as well as relative density was measured. Coefficient of permeability Vs void ratio, coefficient of permeability Vs relative density and coefficient of permeability Vs density was plotted. The change of permeability with the change of void ratio, density as well as relative density is linear in the case of constant head method and falling head method.

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