

Preparation of Leaching Curves for Soils of drainage pilot area, Kalipatnam, West Godavari district of Andhra Pradesh : Laboratory Column Study

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ABSTRACT

In this study water requirement for leaching of soils of Kalipatnam drainage pilot area were estimated in the laboratory column experiment. With application of 30 cm of water about 86% of salts are leached. pH of drained water gradually increased to 9.28 at 30 cm of water application from initial pH of 7.39 indicates the saline sodic nature of the soil. With incremental addition of water, Mg/Ca ratio of drained water reduced from 5.32 to 0.50. Majority of calcium, magnesium and chlorides leached with initial stages of leaching process.

Key words :Laboratory column study, Leaching curves, Saline sodic soil.