

## **Development of Horton's Infiltration Model – A case study of Kovvada region, Srikakulam, A.P, India.**

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### **Abstract**

The necessity of artificial recharge of aquifers is increasing day by day due to excessive demand of water by the ever-growing population and also because of the scarcity of good dam sites available for construction. The infiltration is the main source of ground water replenishment. The main objective of the present work is to find a solution for ground water management in the hazardous substance release sites. The double ring infiltrometer method was used for measurement of infiltration rate. The study aimed to determine infiltration rates of the soil, identification of type of surface soil and development of Horton's Infiltration Model.

**Key words:** Surface runoff, ground water recharge, Horton's infiltration model and rainfall.