

**ENHANCEMENT OF SUCTION PROPERTIES OF
AN UNSATURATED SOIL WITH THE USE OF
GEOCELL**

M.Tech Dissertation

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ABSTRACT

Suction is the major characteristic of soil dealing with its unsaturated state. It predominantly affects the engineering properties of soil. The aim of this study is to determine suction properties of expansive soils from two different states of India, where the temperature affects soil properties in a great extent. The different parameter selected for suction determination are degree of saturation and variation in dry density according to field condition for both region soils. Furthermore, the study extended to calculate soil water characteristic curve (SWCC) and soil freezing characteristic curve (SFCC) and to identify the similarities between SWCC and SFCC.