**STABILIZATION OF SOIL BY USING WASTE FIBER MATERIALS**

**ABSTRACT:**

The main objective of this study is to investigate the use of waste fiber materials in geotechnical applications and to evaluate the effects of waste polypropylene fibers on shear strength of unsaturated soil by carrying out direct shear tests and unconfined compression tests on two different soil samples. The results obtained are compared for the two samples and inferences are drawn towards the usability and effectiveness of fiber reinforcement as a replacement for deep foundation or raft foundation, as a cost effective approach.

**Keywords:** Waste Fiber Materials, Polypropylene Fibers, Fiber Reinforcement.