**STUDY ON EFFECT OF MOLASSES ON STRENGTH OF SOIL**

**ABSTRACT**

The study aims to find the effectiveness of uses of unconventional liquid soil stabilizer i.e. Molasses for improving the shear strength and CBR value of two types of fine grained soils. In case of molasses, the experimental variables were soil type (intermediate compressible clay and highly compressible clay), amount of molasses and treatment duration. The results showed that with use liquid stabilizer, there was appreciable increment in unconfined compressive strength and CBR value of both soils. The unconfined compressive strength of soil increased with increment ratio in range of 1.57-2.01 for both types of soils. CBR value of soils had increment ratio of 2 – 3.5 in both types of soils. The values increased with increase in treatment duration. Based on this study, optimum amount of liquid additive to be added to respective soil types for higher strength increments were determined.

**Key Words:** Molasses, Shear strength, CBR, Strength, Fine grained soils.