



GEOTECHNICAL ENGINEERING LAB

This lab deals with soil testing, in order to give some help in acquiring the overall picture for soil problems which involve the soil property under testing. For each test a brief treatment of the fundamentals included is well understood. The practical issue of each test will be fully discussed to yield the goal of this lab at high level of standards.

Experiments:

- Description and identification of Soils
- Water Content
- Specific Gravity
- Atterberg Limits & Shrinkage Limit
- Sieve and Hydrometer Analysis
- Standard Proctor Compaction
- Permeability of granular soils
- Consolidation test
- Direct Shear Test
- Triaxial Test
- Unconfined Compression Test
- California Bearing Ratio Test

MAJOR EQUIPMENT:

- CBR Test Machine
- Consolidation Frame
- Direct Shear Test Apparatus
- Liquid Limit Device
- Permeability Test Apparatus
- Proctor Mould And Rammer
- Sieve Shaker
- Triaxial Compression Tester
- Unconfined Compression Tester
- Universal Hydraulic Extruder

