

Soil Mechanics Lab

Lab-In-Charge: Raju Sarkar

Technical Assistant: Mr. Anil Agnihotri

Lab Attendant: Mr. Atul Sharma

About the Lab:

This laboratory is equipped with all the necessary equipment for undergraduate and postgraduate teaching and research in soil mechanics. Research, consultancy, and regular soil testing works are conducted in this laboratory under the supervision of faculty members

List of Equipment:

1. Standard Sieves
2. Standard Proctor Compaction Test
3. Constant Head Permeability Apparatus
4. Triaxial Test Set
5. Direct shear testing Apparatus
6. Relative Density Apparatus

List of Experiments:

1. To determine the water content of the soil by oven drying method.
2. To determine the specific gravity of soils by pycnometer.
3. To determine OMC and MDD of soil by Proctor's test.
4. To determine the bulk density of soil by core cutter method.
5. To determine the bulk density of soil by sand replacement method.
6. To determine the gradation of soil by sieve analysis.
7. To determine the gradation of soil by hydrometer analysis
8. To perform liquid limit and plastic limit tests.
9. To perform shrinkage limit test.
10. To determine shear strength parameters of soil direct shear test.
11. To determine the shear strength parameter of the soil triaxial shear test.
12. To determine the shear strength parameter of the soil vane shear test.

13. To determine the shear strength parameter of soil unconfined compressive shear test.
14. To perform modifies Proctor's test
15. To determine the coefficient of consolidation of the soil
16. To determine the permeability of soil by constant head permeameter.
17. To determine the permeability of soil by falling head permeameter.



