

K.RAMAKRISHNAN COLLEGE OF TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

SOIL MECHANICS LABORATORY

Soil testing is primarily done to test the bearing capacity of the soil. It also shows the physical and chemical composition of the soil. These characteristics may vary from layer to layer of the same soil. To determine the suitability of the soil and assess whether it can accommodate your construction project by testing your soil for strength, density, compaction, contamination, organics and sand content, and assess their impact on construction project.

Laboratory In-charge : Mr.J.ANTO M.E.,

Technical supporting staff : Mr.P.PALANISAMY DCE.,

Area of the laboratory: 112.97 Sq.m

Established year : 2012

Established cost : Rs.698323.55/-





MAJOR EQUIPMENTS:

1. Sieves
2. Hydrometer
3. Liquid and plastic limit apparatus
4. Shrinkage limit apparatus
5. Proctor compaction apparatus
6. UTM of minimum of 20KN capacity
7. Direct shear apparatus
8. Thermometer
9. Field density measuring device
10. Triaxial shear apparatus
11. Three gang consolidation test device
12. CBR apparatus
13. One hang consolidation test apparatus
14. Unconfined compression testing machine
15. Blains air permeability test apparatus