



S.A.P.D. Jain Pathashala

Walchand Institute of Technology, Solapur

An Autonomous Institute

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Department of Civil Engineering

Lab Details

Lab Name :	Geotechnical Engineering Lab
Lab Description	Major tests conducted in the laboratory <ol style="list-style-type: none">1. Index properties of soil2. Shear strength and permeability of the soil3. Bearing capacity determination of soil4. Soil investigation and testing5. Plate Load Test6. Standard Penetration Test (SPT)
Lab Equipment	<ol style="list-style-type: none">1. Liquid/plastic/shrinkage limit test apparatus2. Direct shear test apparatus small size(60mmx60mm) (Motorised)3. Direct shear test apparatus large size(300mmx300mm) (Motorised)4. Standard and modified Proctor Compaction test apparatus5. Permeability test apparatus6. Unconfined compression test (Proving ring type)7. Swell test apparatus8. Vane shear test apparatus9. Standard penetration test assembly10. Consolidation test apparatus11. Triaxial test apparatus (Motorized)12. Automatic Compactor13. Electric oven large size
Lab Floor Area in square meters	172
Practical engaged in Lab	<ol style="list-style-type: none">1. Determination of Specific gravity of coarse- and fine-grained soil,2. Particle size distribution – Mechanical sieve analysis,3. Determination of Atterberg limits4. Consistency limits- a. Liquid limit, b Plastic limit, c Shrinkage limit,5. Determination of coefficient of Permeability,



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	<ol style="list-style-type: none">6. Determination of Field density<ol style="list-style-type: none">a) Core cutterb) Sand replacement method.,7. Direct box shear test,8. Proctor compaction test-9. Standard proctor,10. Modified proctor, 8Triaxial test,11. Unconfined compression test,12. One-dimensional consolidation test,13. Standard penetration test,14. Plate load test,15. Swelling pressure test,16. Vane shear test
Name of Lab Incharge	Dr. Mahesh Girmallappa Kalyanshetti
Associated Faculty with the lab	<ol style="list-style-type: none">1. Mr. Sandeep Bansilal Javheri2. Mr. Ashok Kumar Ninganna Rajanavar3. Mr. Avinash Angadi
Name of Lab Assistant	Mr. G. V. Potdar
Name/s of Menial Staff	Mr. Sunil Date