



HIGHWAY ENGINEERING LABORATORY

Location: ROOM NO. W/S 112, WORKSHOP BUILDING, ADIT

Introduction of Lab:

Road Infrastructure is the backbone of any country's development. The main products used in the construction of a road pavement are aggregates, asphalt, concrete and other hydraulic bound materials, and small element pavers: blocks, slabs and bricks. The tests to check the quality of materials being used for construction of flexible & rigid pavements are carried out in a transportation engineering laboratory; this includes various tests on soil, bitumen, emulsions, aggregate, bituminous mix, cement and concrete. Transport engineering laboratory bridges the design, construction, quality control, maintenance practices of road works with the factual knowledge of students. The Transportation Engineering laboratory is equipped with the instruments which is useful for the road infrastructure development.

Major Instruments

1. Marshall Stability Test Apparatus
2. California Bearing Ratio Test Apparatus
3. Los Angeles Abrasion Test Apparatus
4. Aggregate Crushing Value Test Apparatus
5. Ductility Test Apparatus
6. Flash & Fire Point Test Apparatus
7. Viscosity Test Apparatus
8. Softening Point Test
9. Standard Penetration Test Apparatus
10. Shape Test on Aggregate Apparatus

**CIVIL ENGINEERING DEPARTMENT,
A.D.PATEL INSTITUTE OF TECHNOLOGY**