

K L DEEMED TO BE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING
TRANSPORTATION ENGINEERING LABORATORY (CE 03A,03B)

PURPOSE OF LAB:

To develop fundamental understanding of science and engineering properties of road materials, through rigorous theoretical discussions, analytical examples, practical applications and computational projects, such that these theories, physical and engineering properties of road materials can be effectively used for the design and execution of road related works. In this laboratory course, students will gain hands-on experience in conducting transportation engineering laboratory tests to confirm the road materials suitability used in pavement construction and rehabilitation.

FLOOR AREA: 84 SQ.M

EQUIPMENTS USED:

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|--------------------------------------------------------|-------------------------------------------|
| 1 Aggregate Crushing Machine | 16 Universal Penetrometer |
| 2 Impact Testing Machine, | 17 IS Sieves |
| 3 Centrifuge Extractor | 18 Thermo meters |
| 4 Benkelman Beam | 19 Cylinder Metal Measure |
| 5 California Bearing Ratio Testing Machine(Electrical) | 20 Electronic weighing Balance |
| 6 Devals Abrasion Machine | 21 Electrical Oven |
| 7 Ductility Testing Machine | 22 Hot Plates |
| 8 Elongation (Length Gauge) | 23 Marshall Universal Automatic Compactor |
| 9 Flakiness(Thickness Gauge) | 24 Water Bath |
| 10 Flash and Fire Point Apparatus | 25 Buoyancy Balance |
| 11 Film Stripping Device, Bottles | 26 Sieves Shaker |
| 12 Los Angeles Abrasion Testing Apparatus, | 27 Core Drilling Machine, Core |
| 13 Marshall Apparatus, | 28 Skid resistance tester |
| 14 Modified Roughness Indication Machine-Merlin Cycle | |
| 15 Ring and Ball Apparatus | |



SKID RESISTANCE TESTER

FACULTY-IN-CHARGE

PROFESSOR –IN-CHARGE

SIGNATURE OF HOD