

Sanjivani College of Engineering, Kopergaon (An Autonomous Institute)

Affiliated to Savitribai Phule Pune University. Approved by
AICTE, Accredited by NBA, Accredited 'A' Grade by NAAC



Department of Civil Engineering

Transportation Engineering Laboratory



List of Major Equipment's in Laboratory

Sr. No.	Name of Equipment	Cost
1	AIMIL Universal penetrometer for bitumen Testing	44,346.00
2	Lab. C.B.R. App. Hand operated	26,977.00
3	Ductility Testing Machine	18,743.00
4	Marshall Stability App. Proving ring 25 KN	25,673.20
5	CBR Mould with Extension Collar	9,126.00
6	Electric Weighing Machine (10kg & 25 kg)	21,240.00
7	Pensky Marten Apparatus Flash Point app.	8,964.46
8	Los Angeles Abrasion testing Machine	7,267.33
9	Say Bolt Viscometer	6,921.60

List of Lab Experiments Performed in the Laboratory

A) Test on Coarse Aggregates (Road Aggregate)

1. Aggregate Impact Value Test
2. Aggregate Crushing value Test
3. Los Angeles Abrasion Test
4. Shape Test (Flakiness Index and Elongation Index)
5. Specific Gravity and Water Absorption Test

B) Test on Bitumen & Tar Sample

6. Penetration Test on Bitumen
7. Ductility Test on Bitumen
8. Viscosity Test using Tar Viscometer
9. Shape Test (Flakiness Index and Elongation Index)
10. Softening Point Test on Bitumen
11. Flash and Fire Point Test on Bitumen
12. Specific Gravity Test on Bitumen
13. Tests on G.S.B. Samples

C) Test on Bituminous Concrete Mixes

14. Marshall Stability Test
15. Stripping value Test

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Equipment's In the Lab



Marshall Stability Test Apparatus
Application: Bitumen Mix Samples



Impact Test Apparatus
Application: Test toughness of Aggregate



Los Angeles Testing Machine
Application: Abrasion Test



Penetrometer
Application: Test Bitumen Grade

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Department of Civil Engineering **Equipment's In the Lab**



Ductility Test Apparatus

Application: Know the Ductility Value of the Bitumen



Marshall Stability Test Apparatus
Application: Sample Compactor



North Dakota Test
Application: Aggregate & Soil
Testing

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Equipment's In the Lab



Pensky Marten Apparatus

Application: Know the Flash and Fire Temperature



Say Bolt Viscometer Apparatus
Application: Viscosity of Bitumen



Softening Point Test
Application: Softening Temp.