



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 :	Transportation Engineering Lab
Lab Description	Major tests conducted in the laboratory: <ol style="list-style-type: none">1. Impact, crushing value and abrasion tests on road aggregate and ballast for railway tracks2. Determination of various properties of bitumen such as penetration, ductility, softening point etc.3. Determination of California Bearing Ratio of subgrade for road and railway works4. Marshal Stability Test of tar/bitumen5. Road Overlay Study using Benkelman Deflection Equipment as Per IRC-81
Lab Equipment	<ol style="list-style-type: none">1. Aggregate impact tester2. Aggregate Crushing value apparatus3. Los Angles Abrasion Testing Machine4. Laboratory CBR Apparatus motorized5. Thermostatically controlled Ductility Testing Machine6. Softening Point Test7. Marshal Stability test apparatus8. Benkelman Beam Deflection equipment
Lab Floor Area in square meters	86.5
Practical Engaged in Lab	Impact, crushing value and abrasion tests on road aggregate and ballast for railway tracks, Determination of various properties of bitumen such as penetration, ductility, softening

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	point, Thin Film Oven Test, Dynamic and kinematic viscosity of bitumen by capillary viscometer, Bituminous Mix Design by Marshall Stability Method, Bituminous Binder Extraction by Centrifuge machine, Determination of California Bearing Ratio of subgrade for road and railway works, Pavement deflection study by Benkelman Beam Deflection equipment.
Name of Lab Incharge	Mr. Ashok Kumar Ninganna Rajanavar
Associated Faculty with the lab	1. Dr. Sachin Chandrakant Deshmukh 2. Mr. Shashikant Buvasaheb Gosavi 3. Mr. Bipin Pravin Patil 4. Mr. Avinash Angadi
Name of Lab Assistant	Mr. Arvind D Kalpavruksha
Name/s of Menial Staff	Mr. Sunil Bhat