

HIGHWAY ENGINEERING LABORATORY

LABORATORY-ORIENTED TESTING

- Aggregate Grading by Sieve Analysis.
- **Tests on Aggregates** (Flakiness Index and Elongation Index, Specific Gravity and Water absorption of coarse aggregate, fine aggregate and filler, Los Angeles Abrasion Value and Aggregate Impact Values test).
- **Tests on Bitumen** (Penetration test, Ductility test, Softening point test, Flash and Fire point test, Specific gravity test).
- Marshall Stability and flow test for Mix design of BC and DBM layers.
- Stripping value and Indirect Tensile strength test for moisture susceptibility of BC mix.
- California Bearing Ratio Tests (Dynamic cone penetrometer).
- Compressive strength and Flexural strength test of cement concrete for PQC and CTB mix design.

FIELD ORIENTED TESTING

- Benkleman Beam Deflection Tests.
- Dynamic Cone Penetration Tests for assessing field CBR.
- Road roughness profile using MERLIN.

