

CONCRETE TECHNOLOGY LABORATORY

LABORATORY-ORIENTED TESTING

- Test on Aggregates (Bulking of Sand, Specific gravity and Bulk Density of fine aggregates by using Pycnometer, Sieve Analysis and Fineness Modulus of coarse and fine aggregates, Specific Gravity and Water Absorption of a coarse aggregate, Void ratio, Porosity and Bulk density of coarse and fine aggregates).
- Test on Cement (Fineness test of cement by sieving, Normal Consistency Test by Vicat's apparatus, Initial Setting and Final Setting time of cement by using Vicat's apparatus, Specific gravity of cement by using specific gravity bottle, Soundness Test by Le-Chatelier's apparatus and Autoclave testing machine, Compressive Strength of cement by using digital compression testing machine).
- Test on Fresh Concrete:
- Various workability tests (Slump Cone Test, Compacting Factor Test, Vee-Bee Test).
- Test on Hardened Concrete (Compressive Strength Test of Concrete using digital compression testing machine, Split- tensile strength test, Flexure test using steel prism mold, NDT Test-Rebound Hammer), Ultrasonic Pulse Velocity Test (UPV Test) for concrete quality.
- Mix Design for different grades of concrete

FIELD ORIENTED TESTING

- Slump Cone Test
- Rebound Hammer Test

