

4. Concrete Technology Laboratory



Major Equipments:

- Vicat Apparatus with Dashpot Confirming to IS:5513-1976, Standard Test Sieve, Sieve Shaker – Motorised.
- Flexure Testing Machine Motorised, Vibrating Machine IS: 10080-1982, Concrete Test Rebound Hammer.
- Laboratory Concrete Mixer 1 cu.ft Capacity, Compaction Factor apparatus, Slump Test Apparatus.
- Le-Chatelier water bath, Compression testing Machine, Vee-Bee Consistometer IS: 10510-1983.

Experiment List:

- Tests on cement – specific gravity, fineness, soundness, normal consistency, setting time, compressive strength on cement mortar cubes.
- Tests on fine aggregate – specific gravity, bulking, sieve analysis, fineness modulus, moisture content, bulk density and deleterious materials.
- Tests on coarse aggregate - specific gravity, sieve analysis, fineness modulus, bulk density.
- Tests on Fresh Concrete: Workability : Slump, Vee-Bee, Compaction factor tests.
- Hardened Concrete: Compressive strength on Cubes, Split tensile strength, Static modulus of elasticity, Flexure tests, Non destructive testing (Rebound hammer & Ultrasonic pulse velocity).
- Mix Design of Concrete.