

Name of the laboratory: Concrete and Highway lab

Objectives of the lab: The testing and inspection of concrete and concrete aggregates are important elements in obtaining quality construction. The laboratory allows students test to assess the various fresh and hardened concrete properties that may affect the performance of concrete members. There many apparatus and machines available at the concrete technology lab like Sieve Shaker, Compressive testing machine, Flexure Testing Machine, Compaction Factor Apparatus, Heat of Hydration apparatus, Permeability apparatus etc.

List of the equipment:

1. Sieve Shaker
2. Compressive testing machine
3. Flexure Testing Machine
4. Compaction Factor Apparatus
5. Heat of Hydration apparatus
6. Permeability apparatus

List of experiments:

1. Determination of Consistency of Standard Cement Paste
2. Determination of Fineness of Cement by dry sieving
3. Determination of Soundness of Cement by Le-Chatelier method
4. Determination of Compressive Strength of Cement
5. Determination of Specific Gravity of Fine Aggregate
6. Determination of Specific Gravity of Course Aggregate
7. Determination of Aggregate Abrasion Value
8. Determination of Aggregate Abrasion Value
9. Determination of Aggregate Impact Value
10. Determination of Specific Gravity and water absorption.

