

BCE451- MATERIAL TESTING LAB

Testing of various properties of following materials as per BIS specifications

I. Cement

1. Normal Consistency of cement.
2. Initial & final setting time of cement
3. Compressive strength of cement
4. Fineness of cement by air permeability and Le-chatalier's apparatus.
5. Soundness of cement.
6. Tensile strength

II Course Aggregates

1. Water absorption of aggregate
2. Sieve Analysis of Aggregate
3. Specific gravity & bulk density
4. Grading of aggregates.

III Fine Aggregates

1. Sieve analysis of sand
2. Silt content of sand
3. Bulking of sand

IV Bricks

1. Water absorption.
2. Dimension Tolerances
3. Compressive strength
4. Efflorescence