MECHANICAL TESTING:
FOR METALLIC MATERIAL (As per IS: 1786 & 2062):
- Tensile Strength, Yield Strength, % Elongation, Bend,
  Rebend, Mass, Total Elongation
- Tensile (Round & Flat Angle Channel, T & I Section, Pipe, Bolt etc.)
- Bend Test
- Flattening and Flaring Test
- Macro & Micro Examination
- Nick Break Test

CIVIL TESTING:
COMPRESSIVE STRENGTH OF CUBES (IS:516)
- Compressive Strength of Concrete Cubes/Mortar Cubes

CEMENT- OPC, PPC, FLYASH:
Physical Testing (IS:4031):
- Consistency, IST, FST, Compressive Strength, Fineness by Dry and by
  Blain Air Method, Specific Gravity, Soundness by Autoclave & Le-
  Chatelier Method

AGGREGATE TESTING (IS:2386)
- Coarse Aggregate: Sieve Analysis, Bulk Density, Los Angles
  Abrasion Value, Impact Value, Crushing Value, Water Absorption,
  Specific Gravity, Flakiness Index, Elongation Index, 10% Fine Value,
  Soundness with Na$_3$SO$_4$ / MgSO$_4$, Stripping Value, Sand Equivalent
  Value, Deleterious Materials.

- Fine Aggregate: Sieve Analysis, Bulk Density, Los Angles Abrasion
  Value, Impact Value, Crushing Value, Water Absorption, Specific
  Gravity, Flakiness Index, Elongation Index, 10% Fine Value, Soundness
  with Na$_3$SO$_4$ / MgSO$_4$, Stripping Value, Sand Equivalent Value,
  Deleterious Materials.

MIX DESIGN (IS: 10262 & SP-23):
- Mix Design of Cement Concrete
- Slump Test ,Mix Design with Accelerated Curing

CONCRETE CORE (SOLID & HOLLOW) IS:2185
- Water Absorption, Block Density, Compressive Strength

CONCRETE CORE (IS 516):
- Sampling at Site
- Testing Compressive Strength, Density, Water Absorption
**BRICKS (IS: 3425):**
- Compressive Strength, Water Absorption, Efflorescence, Dimension, Bulk Density

**PAVER BLOCK (IS: 15628):**
- Compressive Strength, Water Absorption

**C.C. TILE (IS: 1237, 10646):**
- Flexural Strength
- Water Absorption

**BITUMEN & BITUMEN EMULSION (IS: 1201 TO 1220):**

**SOIL (IS: 2720):**
- Grain Size, L.L., P.L., Water Content, Specific Gravity, Shrinkage Limit, Compaction test by (Light & Heavy Method), FSI, Swelling Pressure, CBR, Direct Shear, Consolidation, Permeability and CNS Mix Design

**ROCK (IS: 9143, 13030):**
- Unconfined Compressive Strength, Relative Density, Water Content, Point Load Index

**SOIL AT SITE**
- Plate Load Test, Cyclic Plate Load Test
- Standard Penetration Test, Field CBR Test
- In Situ Density: 1) Sand replacement 2) Core Cutter Method

**CHEMICAL TESTING:**
*(By Wet Method)*

**SOIL:**
- pH Value, Water Soluble Sulphate, Water Soluble Chloride, Organic Matter, Soluble Solids, Calcium Carbonate

**METAL:**
- Carbon, Sulphur, Phosphorus, Nickel, Manganese, Chromium, Silicon, Molybdenum

**WATER (Construction Purpose Water):**