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## Civil Engineering.

### 1. Building Materials-

Testing of Building Materials for its properties in accordance with BIS standard. Some Key testing machines are-

- Universal Testing Machine with 100 tone capacity,
- Compressive testing machine with 200 tone capacity,
- Water bath and lee charter apparatus for cement tests.
- Sieve shaker for sand and aggregate tests.

### 2. Concrete Technology-

Evaluation of compressive strength of concrete as well as all concrete ingredients (Cement, Sand Aggregates) with testing machine like-

- Lee chatter apparatus
- Hot water bath
- Sieve shaker machine

### 3. Transportation Engineering-

Evaluation of all road construction materials (Bitumen, bolders, metals, etc...) with all engineering properties as per IS Standard. Some important equipments are :

- Los Angeles Machine for metals
- Penetration test machine
- Ductility machine
- Ring & boll apparatus for bitumen.

### 4. Geotechnical Engineering-

Evaluation and Analysis of all properties of soil (Bearing capacity, Shear strength, etc...) with all engineering properties as per requirement of client.

- We have all equipments related to soil testing.

### 5. Survey-

Survey for any plot or any area for road construction or building construction like counter survey, plane table survey, etc... Some important equipments are-

- Digital planimeters

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- Theodolites
  - Dumpy levels
  - Total station.

#### Consultancy Areas and details-

##### 1. Concrete Technology-

A] We provide concrete Mix Design for various grades (from M15 TO M35) as per client requirements with all ingredients testing and taking three trial mix with 7 days compressive test result.

B] Evaluation and Analysis of R.C.C.Structure by Non Destructive Test (NDT) by  
\*Rebound Hammer  
\* Ultra sonic pulse velocity apparatus.

##### 2. Geotechnical Engineering –

Analysis of various alternative solutions to improve bearing capacity of soil after testing and site visit. This can be further used to decide depth of foundation.

##### 3. Building Plan, Drawing and Estimation-

We provide building plan with detail estimation as per client requirements.

##### 4. R.C.C. And Steel Design of structural Elements.