



**KPR Institute of
Engineering and
Technology**

Learn Beyond

(Autonomous, Affiliated to Anna University)

Department of Civil Engineering

Testing & Consultancy Services

For Testing, Consultancy and R&D works, contact

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Concrete Highway & SOM

- Compressive strength - cube/brick/paver/solid / Hollow blocks
- Water absorption
- Gradation of aggregates
- Aggregate impact value
- Aggregate crushing value
- Aggregate shape
- Aggregate specific gravity
- Los Angeles abrasion value
- Stripping value and water absorption
- Bitumen extraction test for surface course
- Bitumen penetration
- Bitumen softening point
- Bitumen specific gravity
- Bitumen viscosity
- Rebound deflection(Benkelman beam)
- Pavement design
- Mix design
- Slump test
- Moisture content in wood
- Tensile test on steel using Digitized UTM
- Metal matrix composite
- Polymer matrix composite
- Ceramic matrix composite

BIM

- 2D Planning and Vaastu Consulting
- Building Approval drawings
- 3D modelling (Interior and Exterior Designing)
- Structural Design and Detailing
- Structural Stability Certificate
- Software and Industry Based Training.

Environmental

- Water Quality Analysis for Drinking/Construction/Agricultural purposes
- Wastewater Quality Analysis (Domestic/Industry) for selecting suitable treatment
- Effluent Quality Analysis for selecting suitable treatment
- Design of a water and wastewater treatment system
- Management plan for rejuvenation and conservation of water bodies
- Solid waste routing and management plans
- Design of drainage system for buildings
- Design of a decentralized wastewater treatment system for a commercial establishment
- Environmental impact studies
- Environmental audits
- Environmental modelling
- Waste management and recycling
- Contaminated land assessment and remediation
- Sustainability consulting

Structural Health Monitoring

- Rebound hammer test
- Ultrasonic pulse velocity
- Pullout test
- Rebar locator and corrosion analysis
- Accelerated corrosion test
- Carbonation test
- Sulphate, salt and acid resistance test
- Drying shrinkage - concrete
- RCPT, ACPT

Surveying

- Topographic Survey
- Levelling
- Contouring
- Canal Discharge Measurement
- DGPS
- Land use Mapping
- Boundary Surveys
- Construction Layout and Setting out
- Column Marking
- Route Alignment Survey
- Land use Planing and Feasibility Study
- Total Station

Geotechnical

- CBR Test
- Specific gravity of soil
- Atterberg limits
- Sieve analysis
- Proctor's compaction test
- Direct shear test
- Permeability test
- Unconfined compression test
- Field dry density
- SPT
- Foundation Check and recommendation

Advanced Research

- Column-Monotonic load test
- Beam-flexure behaviour
- Beam-column joint
- Cyclic loading
- Concrete cutter