

Research Centre for Durability of Concrete Systems

- This is an exclusive concrete durability testing facility established in RIT, Kottayam with the support of plan fund of Government of Kerala and research projects sanctioned by various agencies such as CERD, TEQIP, TRC, KSCSTE etc.
- This is the first laboratory in Kerala equipped with almost all facilities to test durability properties of concrete.
- The test facilities include Wenner 4-Probe Resistivity Test (to assess resistivity of concrete), Rapid Chloride Permeability Test, Rapid Migration Test (methods to assess chloride ingress to concrete), Water Permeability Test, Water Sorptivity Test (methods to assess water penetration resistance to concrete), Accelerated Carbonation test (to assess carbonation resistance of concrete), Oxygen Permeability Index test (to assess oxygen penetration resistance of concrete), Ultrasonic Pulse Velocity Test, Rebound hammer test (non-destructive tests to assess uniformity/strength of concrete), Half Cell Potential Test (to assess corrosion potential of reinforcement in RC structures), Accelerated Static Immersion Test (to assess acid resistance of concrete), Covermeter (to assess reinforcement position, cover depth and diameter), concrete cutting and coring facility, facility for vacuum saturation etc.
- Research scholars are working in this laboratory.



Rapid chloride permeability test



Water permeability test



Water sorptivity test



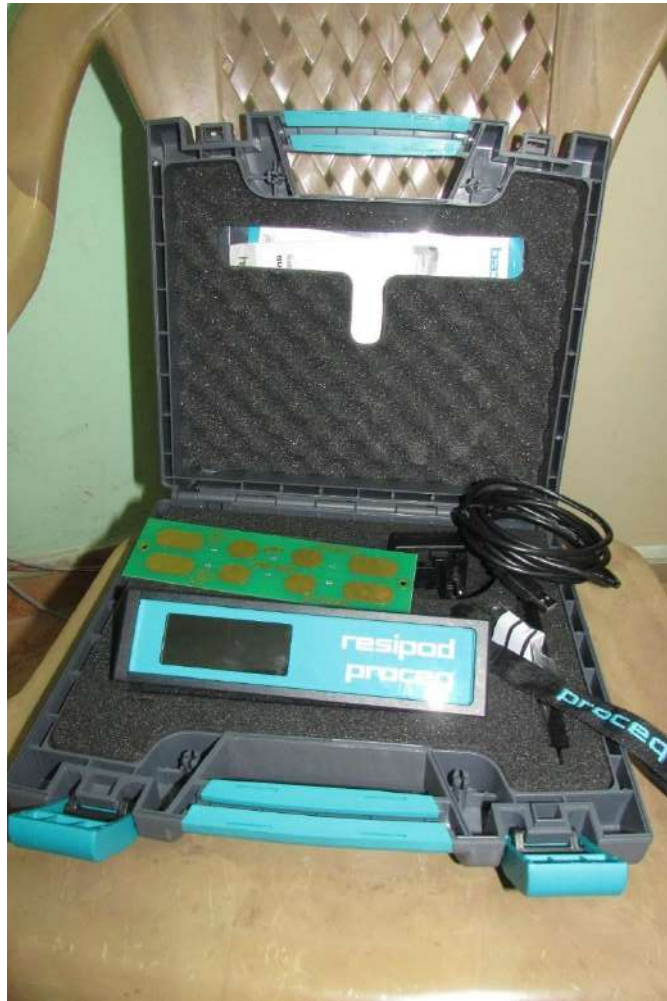
Vacuum saturation



Corrosion studies



Rebound hammer



Wenner 4 probe resistivity meter



Covermeter



Pendulam type rebound hammer



Ultrasonic pulse velocity test



5.5 digit high precision multimeter