

**PI Name:** R. Siva Chidambaram

**Project Title:** Health Assessment & Remedial Measures for G+5 Super- Specialty Block of S.P Medical College in Bikaner

**Client:** Shri Atul Dhanda, GM (Projects), HSCC India Ltd, E-6A, Sector 1, Noida-201301 (UP)

- Objectives:**
1. Visual inspection of different parts of the hospital building
  2. NDT for assessment of deterioration in concrete quality by Rebound Hammer and Ultrasonic Pulse Velocity (UPV) Test at Selected locations in RCC columns/beams/slabs of every floor.
  3. Corrosion assessment on RCC elements such as slab, columns, beams will be done using Half Cell Potentiometer, Carbonation test.
  4. Diameter loss assessment of rebars of selected RC members in every floor.
  5. Determination of pH values, chloride, sulphate content of concrete samples taken from 30 critical locations in the building
  6. Detailed distress analysis will be done using the collected data and drawings, if available.
  7. A detailed report, which will include the test results and interpretation and appropriate recommendations for repair and protective measures, will be submitted