

## **Structural Audit of 05 Cooling tower at ONGC Hazira plant, Surat (SSP-1473)**

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**Period: April 2024 to April 2025**

### **Abstract**

Sh. Pankaj Kumar Katiyar CGM (P), Area Incharge Utilities & WWTP, ONGC, Hazira, Surat approached CBRI, Roorkee regarding structural assessment of 05 Cooling towers, at ONGC Hazira plant. The scope of the work include: Detailed visual investigation of 05 cooling towers for distress mapping. Study of available architectural and structural drawings NDT for assessment of current condition using Rebound Hammer, Ultrasonic Pulse Velocity, Half-Cell Potential, etc. Concrete Core extraction and testing for residual strength estimation. Chemical Analysis of concrete samples Suggestions/ remedial measures for repair/ retrofitting Preparation of preliminary cost estimate for retrofitting/strengthening work.

**Objective:** To assess condition of the cooling towers and suggest suitable repair/strengthening measures alongwith cost estimate.