

**Title:** Condition assessment of steel structures in CHP area of Thermal Power Station at NTPC Ramagundam (SSP 403)

**Duration:** 6 months

**Deliverables:**

- I. NDT&E of selected elements and joints of the steel structures in the CHP area
- II. Evaluation of results and recommendation of appropriate repair, if found necessary

**Significant Achievements:**

NDT inspections have been conducted on the identified critical structural members and connections. No major cracks have been identified except the corrosion levels ranging from mild to very severe at various structures. Recommendations were prescribed to strengthen the corroded structural elements.



**Dye penetrant test**



**Magnetic particle test**



**Thickness mapping**

**Team:**

Dr. V. Marimuthu, Principal Scientist (Project Leader)  
Dr. P. Prabha, Principal Scientist  
Dr. R. Balagopal, Principal Scientist  
Dr. M. Saravanan, Principal Scientist  
Dr. J. Prawin, Senior Scientist  
Shri. S. Vinoth Krishnan, Scientist

*Date:*