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### Study on Corrosion Inhibition of Mild Steel in Aqueous Chloride Environment Using PABA as Green Inhibitor

Albin Aloysius<sup>1\*</sup>, Rajajeyaganthan Ramanathan<sup>2</sup>, Auxilia christy<sup>1</sup>,  
Noreen Anthony<sup>3\*</sup>

<sup>1</sup>Department of Chemistry, BWDA College, Kolliyanguam – 604304, Tamilnadu, India

<sup>2</sup>Department of Chemistry, M.Kumarasamy College of Engineering, Karur – 639113,  
Tamilnadu, India

<sup>3</sup>Department of Chemistry, Holy Cross College, Tiruchirappalli – 620002,  
Tamilnadu, India

**Abstract :** Corrosion inhibition studies of mild steel in 240 ppm aqueous chloride ion solution with p-amino benzoic acid (PABA) has been investigated using experimental techniques such as weight loss, Ultraviolet-Visible spectroscopy (UV), Fourier transform infrared spectroscopy (FTIR), Potentiodynamic Polarization(PDP), Electrochemical Impedance Spectroscopy (EIS) and Scanning Electron Microscopy (SEM). All these technique revealed that the inhibitor PABA reduced the mild steel corrosion through their effective adsorption to form inhibitive layer by Fe-inhibitor complex formation which is further evidenced from FTIR.

**Keywords :** Green corrosion inhibitor, Vitamin B10, p-Amino benzoic acid, Mild Steel, 240 ppm chloride medium.

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