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Seed Extract of *Dypsis lutescens* as Ecofriendly Corrosion Inhibitor for Mild Steel in Hydrochloric Acid Medium

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Abstract : The seed extract of *Dypsis lutescens*, had been analyzed for mild steel corrosion inhibition in acid medium with weight loss, thermodynamic, adsorption and electrochemical parameters. The results reflected that the extract is a potential corrosion inhibitor. IR spectra and SEM photographs recorded for functional group and surface modification analysis of mild steel, were agreeing with other parameters. Entire study revealed that the inhibitor works through adsorption of its molecules over the mild steel. From this study it is inferred that the seed extract of *D. lutescens* is an efficient, eco-friendly and alternate corrosion inhibitor for mild steel in acid medium.

Key words : *D. Lutescens*, mildsteel, corrosion, polarization, impedance, eco-friendly.

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