# Adsorption of Heavy Metals from Industrial Wastewater in Ranipet District using Agricultural Wastes as Biosorbents

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**Abstract:** *The contamination of the natural environment by heavy metal is an emerging problem in the world. Remediation of these contaminants from our environment is posing a technological challenge for us. Various biosorbents were examined and their maximum adsorption capacities for lead(II) and nickel(II) usually found in Industrial wastewater samples from Common Effluent Treatment Plant. The results emphasized that the primary adsorption mechanism is the complexation of metal ions at the biosorbent surfaces. Adsorption Isotherm indicate that Pb(II) has higher adsorption property than Ni(II), on the selected biosorbents. Among the selected biosorbents, castor leaves (CL) collected from roadside possess higher adsorption capacities, which can be further developed as a lead(II) selective biosorbents*

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