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**ADSORPTION OF ZINC ON KAOLINITE IN THE PRESENCE OF  
CALCIUM AND MAGNESIUM.**

A PROJECT REPORT PRESENTED BY  
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## **ABSTRACT**

### **ADSORPTION OF ZINC ON KAOLINITE IN THE PRESENCE OF CALCIUM AND MAGNESIUM.**

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Adsorption of zinc on to kaolinote was examined as a function of pH, in the presence of calcium and magnesium separately and calcium and magnesium together. For this purpose a solution of 50 mg/l of zinc nitrate was used alone and then with nitrate solutions of 20 mg/l calcium and 20 mg/l magnesium and with combination of 20 mg/l calcium and 20 mg/l magnesium. Atomic absorption spectrophotometer was used to detect the quantities of zinc left in the solution after adsorption on to kaolinite, when zinc is present alone and in the presence of calcium and magnesium separately and together, at different pHs. Graphs were plotted to determine the trends in adsorption as a function of pH. It was observed that with increase in pH the adsorption of Zn increases. But, in the presence of calcium and magnesium ions zinc adsorption was reduced.