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Removal Dye Color from Aqueous Solution By Adsorption

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Abstract : The textile, paper and pulp, paint, printing and cosmetic industries contain significant amount of the dyes and the dye wastes must be treated to bring down their concentration to permissible limit before discharging into water bodies as required by environmental save. In this research work, the reducing color of aqueous dye solution was studied. The aqueous Congo red dye solution was prepared in laboratory. The geosorbent, quicklime powder was collected from Htone-bo Village, Patheingyi Township, Mandalay Region. The removal of Congo red from aqueous dye solution was carried out by using quicklime powder as adsorbent. The adsorption methods, standing and shaking methods were used. The adsorption isotherms were also studied.

Keywords : adsorption, dye, quicklime, Congo red, geosorbent.

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