

LAUNDRY WASTE TREATMENT USING A COMBINED METHOD OF ELECTROCOAGULATION AND ADSORPTION

ABSTRACT

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This Research has been conducted on the processing of laundry waste by using a combined method of electrocoagulation and adsorption. This study used a combination of two methods, namely electrocoagulation with potential variations of 4,6,8 and 10 V and a time variation of 1,2,3 and 4 hours using a potential of 10 V and the adsorption method by using activated charcoal adsorbent. The results of the study using two combined methods showed that a good potential was obtained at a voltage of 10 V and the best time variation was obtained within 2 hours. The results of the optimum percentage decrease of COD concentration on the influence of potential variation of 10 V was 99.25% and on the influence of time variation of 4 hours was 53.75%. This proves that the use of two combined methods of electrocoagulation and adsorption of laundry waste is quite effective.

Keywords: *Waste Water, Laundry, Electrocoagulation and adsorption*