

**DEVELOP THE WASTEWATER TREATMENT METHOD FOR RUBBER
INDUSTRY**

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By

W.D.A.K.GUNAWARDANA

Mineral Resources and Technology Degree Program

UvaWellassa University, Sri Lanka

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ABSTRACT

Plastic tank, 1mm grain size sand were used to prepare sand filter. Lime and Alum are used to chemical treatment.

Lime was used for the pH adjustment and remove. Sand filtration method was used for reduce turbidity, color and order problem. Alum was used for remove suspended solid. 1g of lime was enough to pH correction. After sand filtration and was added 1g of alum to reduce suspended solids. Then Algal treatment was used to reduce nitrate and suspended solids.

Alum treatment was started after lime treatment and sand filtration. It was helped to minimize the Alum usage and increase the efficiency of Alum treatment. Most research about rubber waste water based on only biological methods. This research, chemical treatment was used to increase the treatment rate. This was easy to maintain and Chemical cost is low value. In Algae treatment process, Algae was used nitrogen for their metabolism activities. Denitrification microorganism activities also helped to reduce total nitrogen. This research was concerned to evaluate the pH, BOD, COD, TSS, total nitrogen in wastewater and adjust them to desirable limit.