

Phytoremediation Waste Processing of Coffee in Various Concentration of Organic Materials Plant Using Kiambang

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Abstract : On wet coffee processing can improve the quality of coffee, but the coffee liquid waste that can pollute the environment. Liquid waste a lot of coffee resulting from the stripping and washing the coffee. This research will be carried out the process of handling liquid waste stripping coffee from the coffee skin with media phytoremediation using plants kiambang. The purpose of this study was to determine the characteristics of the coffee liquid waste and plant phytoremediation kiambang as agent in various concentrations of liquid waste coffee as well as determining the most optimal concentration in the improved quality of waste water quality standard approach. This research will be conducted through two stages, namely the preliminary study and the main study. In a preliminary study aims to determine the ability of the plant life kiambang as phytoremediation agent in the media well water, distilled water and liquid waste coffee. The main study will be conducted wastewater dilution and coffee will be obtained COD concentration variations. Results are expected at this research that can determine the ability of plants kiambang as an agent for phytoremediation in wastewater treatment with various concentrations of waste and the most optimal concentration in the improved quality of waste water quality standard approach.

Keywords : wet coffee processing, phytoremediation, Kiambang plant, variation concentration liquid waste

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