Penerapan Metode *Certainty Factor* Pada Aplikasi Untuk Identifikasi Penyakit Tanaman Tembakau Kasturi *(Voor Oogst)*

(Application Certainty Factor Method in the Application For The Identification of Kasturi Tobacco Plant Disease (Voor Oogst)

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ABSTRACT

Tobacco is one type of plant that is well known by the Indonesian people. Jember Regency is one of the largest tobacco producers in Indonesia, the production of tobacco plants has the potential for the best quality in the world. Jember Regency has long been known as the "Tobacco City" as one of the largest producers and producers of tobacco with quality products. However, disease in tobacco plants is a major problem for farmers in the management and cultivation of tobacco plants which results in fluctuations in production from year to year. The symptoms that are caused are difficult to distinguish and recognize. So that the process of determining or identifying the disease requires a long time and costs a lot because it has to go through the analysis and diagnosis of an expert. Based on these problems, the author will make an application to identify diseases in tobacco plants. with this application, it is hoped that farmers can easily identify diseases that attack the tobacco plants they plant. This system can also assist the activities of experts as assistants who are experienced and have the required knowledge. The author uses certainty factors method to help identify. The results displayed are the percentage of tobacco plant diseases that attack. In blackbox testing, the results show that the application can run well. Based on the UAT test (user acceptance test), the result was 80.71%, which means that the system was well accepted by the user.

Key words: *Certainty Factor, Expert System, Tobacco Disease*