

## **ABSTRACT**

*The research focuses on peroses the manufacture of As Sentrik using cutting machines, fertilizing and Frais. The frequency of work accidents of a month that has occurred in the part of the manufacturing of As Sentrik is quite often where the severity level is also high. The purpose of this research is to address the occupational accident problem that identified the risk of accident work with Job Safety Analysis (JSA). The research methodology began from finding problems in the process of production of the As Sentrik by knowing the characteristics and work of the production of the As Sentrik then there is a risk of workplace accidents that occurred. In completing the improvement to design the OHS system is done with the assessment of WISE criteria. WISE criteria helped repair with the needs of the OHS system in the division sparepart of the As Sentrik. At each WISE criterion in designing an OHS system it takes sub-criteria to help improve workplace safety. Thus it can be a treatment with an OHS system design. The draft is made of the OHS procedure, installation and placement of the OHS information, installation and placement of first paid equipment, manufacture and execution of JSA, create a daily OHS inspection, create a daily work accident form, First paid checking form and make a work accident emergency response ready. In meeting the WISE criteria is conducted a risk search on each process of making As Sentrik which can lead to the risk of accident work with JSA. The result of JSA was obtained risk treatment which resulted that the work accident requires the use of Personal protective equipment (PPE) with the design of PPE. Determining the type of PPE is done with the assessment of the needs of PPE which results in the design of earmuff and spectacles.*

**Keywords : Occupational accident, Occupational Health and Safety System, Job Safaety Analysis, WISE criteria, Personal Protective Equipment**