

ABSTRACT

Indonesia, as the largest archipelago with a growing population, faces increasing needs in the healthcare sector. Most of the medical devices in Indonesia still rely on imported products, with the percentage reaching 70%. PT Nusalab Global Investama, which is engaged in manufacturing medical devices, produces a centrifuge with plastic material as its cover. However, fluctuations in the price of plastic raw materials result in high production costs. This study proposes the use of metal material as an alternative to reduce production costs. The method used is comparative quantitative, with data collection through interviews, observation, and documentation, and data analysis using the independent sample T-test. In addition, this research uses the SCAMPER method to design a solution that suits the company's needs. The results showed that using metal as a centrifuge cover material is more efficient and can reduce production costs. This research is expected to contribute to improving product competitiveness and production efficiency in the company.

Keywords: *Centrifuge, Metal Materials, Production Efficiency.*