

## **ABSTRAK**

*Penelitian ini bertujuan untuk mengetahui kinerja mesin Electronic Pinhole Testing (EPT) di PT. Medisafe Technologies menggunakan metode Overall Equipment Effectiveness, mengetahui nilai faktor six big losses yang mempengaruhi rendahnya nilai OEE pada mesin EPT dan melakukan analisis terhadap faktor yang paling berpengaruh untuk dilakukan perbaikan dengan menggunakan cause and effect diagram. Overall Equipment Effectiveness (OEE) merupakan metode yang dapat digunakan untuk mengukur efektivitas mesin yang didasarkan pada 3 faktor yaitu ketersediaan waktu kerja (availability), performa mesin (performance) dan kualitas produk (quality). Diperoleh nilai OEE mesin EPT di PT. Medisafe Technologies periode Januari 2025 yaitu (90,71%), Februari 2025 (82,89%), Maret 2025 (80,83%) dan April 2025 (88,83%). Faktor six big losses yang mempengaruhi rendahnya nilai OEE adalah Reduce Speed Losses di bulan Maret 2025 (13,33%) dan Idling and Minor Stoppages Losses di bulan Januari 2025 (12,36%). Faktor yang paling berpengaruh untuk dilakukan perbaikan dengan menggunakan cause and effect diagram adalah manusia, material, metode, mesin dan lingkungan. Berdasarkan hasil analisis penyebab terjadinya kegagalan yaitu kerusakan mesin, mesin sering breakdown dan teknisi kurang memahami kemampuan mesin, sehingga disarankan untuk lebih memperhatikan kinerja mesin dengan melakukan perawatan mesin secara berkala.*

**Kata Kunci:** *Overall Equipment Effectiveness (OEE), Six Big Losses, Idling & Minor Stoppages Losses, Reduce Speed Losses, Electronic Pinhole Testing (EPT).*

## **ABSTRACT**

*This research was conducted to determine the performance of the Electronic Pinhole Testing (EPT) machine at PT. Medisafe Technologies uses the Overall Equipment Effectiveness method, determines the value of the six big losses factors that affect the low OEE value on the Electronic Pinhole Testing (EPT) machine and performs an analysis of the most influential factors for improvement using cause and effect diagrams. Overall Equipment Effectiveness (OEE) is a method that can be used to measure machine effectiveness based on 3 factors, namely availability, machine performance and product quality. The OEE value of the EPT machine was obtained at PT. Medisafe Technologies for the Januari 2025 is (90,71%), Februari 2025 (82,89%), Maret 2025 (80,83%) and April 2025 (88,83%). The six big losses factors that affect the low OEE value are Reduce Speed Losses in March 2025 (13,33%) and Idling & Minor Stoppages Losses in January 2025 (12,36%). The most influential factors for improvement using cause and effect diagrams are people, materials, methods, machines and the environment. Based on the results of the analysis of the causes of failure, namely engine damage, frequent machine breakdowns and technicians do not understand the machine's capabilities, so it is advisable to pay more attention to machine performance by carrying out periodic machine maintenance.*

**Keywords:** *Overall Equipment Effectiveness (OEE), Six Big Losses, Idling & Minor Stoppages Losses, Reduce Speed Losses, Electronic Pinhole Testing (EPT).*