

ABSTRAK

Penelitian ini bertujuan untuk mengetahui kinerja mesin pengisian dan pengepakan produk insektisida dan fungisida di PT. Corteva Agriscience Manufacturing Indonesia menggunakan metode Overall Equipment Effectiveness, mengetahui nilai faktor six big losses yang mempengaruhi rendahnya nilai OEE pada mesin pengisian dan pengepakan dan melakukan analisis terhadap faktor yang paling berpengaruh untuk dilakukan perbaikan dengan menggunakan fishbone 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 Pengisian dan Pengepakan di PT. Corteva Agriscience Manufacturing Indonesia periode Oktober 2024 yaitu (37,20%), November 2024 (37,59%), Desember 2024 (38,67%). Faktor six big losses yang mempengaruhi rendahnya nilai OEE adalah Idling and Minor Stoppages Losses sebesar 43,32%. Faktor yang paling berpengaruh untuk dilakukan perbaikan dengan menggunakan fishbone diagram adalah manusia, material, metode, mesin dan lingkungan. Berdasarkan hasil analisis penyebab terjadinya kegagalan yaitu kerusakan mesin, mesin sering breakdown dan operator kurang mampu dalam mengatasi kerusakan mesin, sehingga disarankan untuk lebih memperhatikan kinerja mesin dengan melakukan perawatan mesin secara berkala dan memberikan pelatihan kepada operator.

Kata Kunci: *Overall Equipment Effectiveness (OEE), Six Big Losses, Idling & Minor Stoppages Losses, Mesin Pengisian dan Pengepakan, Fishbone Diagram*

ABSTRACT

This research was conducted to determine the performance of the Filling and Packing Machine product insecticide and fungicide at PT. Corteva Agriscience Manufacturing Indonesia uses the Overall Equipment Effectiveness method, determines the value of the six big losses factors that affect the low OEE value on the Filling and Packing machine and performs an analysis of the most influential factors for improvement using fishbone 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 Filling and Packing Machine product insecticide and fungicide at PT. Corteva Agriscience Manufacturing Indonesia was obtained for the October 2024 is (37,20%), November 2024 (37,59%), and December 2024 (38,67%). The six big losses factors that affect the low OEE value are Idling and Minor Stoppage Losses of 43,32%. The most influential factors for improvement using fishbone 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 operator incompetence in troubleshooting the machine's damage, so it is advisable to pay more attention to machine performance by carrying out periodic machine maintenance and providing training to operators.

Keywords: *Overall Equipment Effectiveness (OEE), Six Big Losses, Idling & Minor Stoppages Losses, Filling And Packing Machine, Fishbone Diagrams.*