

ABSTRACT

One of the biggest problems faced in the production department of Palm Oil Mill (POM) is low throughput that hampering the effectiveness and efficiency of the Fruit Fresh Bunch (FFB) processing to Crude Palm Oil (CPO). A proper and proven system in maintaining and taking care of machinery structuredly and sistematically that can be implemented in POM is Total Productive Maintenance (TPM). The aims of this research was to find out the positive impact of TPM implementation to increase the mill throughput by calculating the Overall Equipment Effectiveness (OEE) before and after the implementation of TPM. To find out the main problem, pareto chart is used while fishbone analysis is used to find out the root cause. Results showed that OEE before the implementation of TPM was 61%, while the OEE of world class companies indicate more than 95%. Research has been capable of finding out the root causes of the ineffectiveness of the operation of a set of equipment called sterilizers. After implementeation of TPM, the OEE was improved to 81%

Keywords: *Total Productive Maintenance, Overall Equipment Effectiveness, Palm Oil Mill*



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