RINGKASAN

Penelitian ini berjudul Evaluasi Efektivitas Kinerja Pada Mesin Produksi Menggunakan Analisis Perhitungan *Overall Equipment Effectiveness* (OEE) (Studi OEE Pada Industri Batu Bata Kampung Cikondang). Tujuan dari penelitian ini yaitu untuk memperoleh nilai OEE dari mesin atau peralatan produksi yang diteliti serta untuk mengetahui dan menganalisis pengaruh dari *Planned Downtime, Equipment Downtime, Cycle Time Actual, Defect* (Jumlah Barang Cacat), dan *Loss* terhadap nilai *Overall Equipment Effectiveness* (OEE). Objek yang diteliti adalah mesin pencetak batu bata. Hipotesis dalam penelitian ini menyatakan bahwa *Planned Downtime* berpengaruh negatif terhadap OEE; *Equipment Downtime* berpengaruh negatif terhadap OEE, *Cycle Time Aktual* mempunyai pengaruh negatif terhadap OEE, *Deffect* berpengaruh negatif terhadap OEE, dan *Loss* berpengaruh negatif terhadap OEE.

Metode perhitungan menggunakan perhitungan OEE, untuk analisis data digunakan analisis regresi berganda dengan jumlah sampel sebanyak 4 (empat) pabrik. Berdasarkan hasil penelitian menunjukan bahwa rata – rata nilai OEE pabrik batu bata Kampung Cikondang yaitu sebesar 37%. Analisis regresi berganda menunjukan *Planned Downtime* berpengaruh positif dan signifikan terhadap nilai OEE, *Equipment Downtime* berpengaruh negatif dan signifikan terhadap nilai OEE, *Cycle Time Aktual* berpengaruh negatif dan signifikan terhadap nilai OEE, *Deffect* berpengaruh negatif dan tidak signifikan terhadap nilai OEE, dan *Loss* berpengaruh negatif dan tidak signifikan terhadap nilai OEE.

Implikasi dari penelitian ini, nilai OEE bisa dijadikan acuan untuk terus melakukan perbaikan serta menjadikan bahan pertimbangan dalam pengambilan keputusan. Pemilik pabrik perlu menambah tenaga kerja dalam proses pencetakan batu bata supaya dapat memperoleh hasil maksimal.

Kata Kunci :*Planned Downtime, Equipment Downtime, Cycle Time Aktual, Deffect, Loss, Overall Equipment Effectiveness, OEE*

SUMMARY

Research for this case is entitled Evaluation of Performance Effectivity on Production Machine Using Analysis of Overall Equipment Effectiveness (OEE) Calculation (OEE Study In Brick Industries Kampung Cikondang). The purpose of this study is to obtain the OEE value of the machine or production equipment be inspected and to find out and analyze the effects of Planned Downtime, Equipment Downtime, Actual Cycle Time, Defect and Loss towards Overall Equipment Effectiveness (OEE) . The object be inspected is a brick machine. The hypothesis in this study states that Planned Downtime has a negative effect toward OEE; Equipment Downtime has negative effect toward OEE, Cycle Time Actual has negative effect toward OEE, Deffect has negative effect toward OEE, and Loss has negative effect toward OEE.

Calculation method using OEE calculation, for the analysis of data used multiple regression analysis with the number of samples of 4 (four) factories. Based on the results of research show that the average value of OEE brick factory Kampung Cikondang that is equal to 37%. Multiple regression analysis showed Planned Downtime has positive effect and significant toward OEE value, Equipment Downtime has negative effect and significant toward OEE value, Cycle Time Actual has negative effect and significant toward OEE value, Deffect has negative effect and Not significant toward OEE value, and Loss has negative effect and Not significant toward OEE value.

The implications of this study, the value of OEE can be used as a reference to continue to make improvements and make decision making. Manufacturers need to add labour in the brick molding process in order to obtain maximum proceeds.

Keywords: *Planned Downtime, Equipment Downtime, Actual Cycle Time, Deffect, Loss, Overall Equipment Effectiveness, OEE.*