

ABSTRAK

PT ABC is an Indonesian textile industry company in Bandung regency producing sarong using weaving machine. Weaving machine is an automated weaving machine, must have good performance and work optimally. So the maintenance policy on weaving machine should be right. The method used Reliability Availability Maintainability (RAM) Analysis on the critical system of the machine and know the value of performance indicators in critical systems weaving machine. The next method is Overall Equipment Effectiveness (OEE) Analysis to determine the performance and level of machine effectiveness. In OEE calculations are performed to determine the availability, performance rate, and rate of quality product of a machine, as well as the six big losses factor to determine what factors cause low OEE values.

In the weaving machine there are 4 sub-critical system that is gun, lade, teropong, and sisir tenun. Each sub-system has $R(t) = 16$ hours ie, 94% gun, 95% lade, 94% teropong and 96% sisir tenun, while maintainability for $M(t) = 1$ hour can restore as much reliability as, 32% gun, 15% lade, 57% teropong, and 17% sisir tenun. The value of inherent availability system 95% and operational availability system 78%. The value of the overall equipment effectiveness of weaving machines is 85.28% availability, 65.04% performance rate, and 75.58% quality rate. So the value of OEE 42.11%, while the value of six big losses largest defect losses 36.65%.