

ABSTRACT

PT XYZ is an Indonesian industrial company in Pekalongan district which manufactures sarong using an Air Jet Loom (AJL) machine. AJL machine is a machine that produces various types of textiles from warp yarns and main machine weft yarns used in weaving, must have good performance and work optimally. Then the maintenance policy on the AJL machine must be right. The method used by Total Productive Maintenance (TPM) on the AJL machine to find out the maintenance system that is applied is good. The next method is Overall Resource Effectiveness (ORE) to calculate the overall effectiveness of the resources owned by a company organization. In ORE, calculations are performed to determine the value of Readiness, Availability of Facility, Changeover Efficiency, Availability of Material, Availability of Manpower, Performance Efficiency and Quality Rate.

On the AJL machine, the Readiness Value was 98,91%, Availability of Facility was 98,72%, Changeover Efficiency was 98,72%, Availability of Material was 99,09%, Availability of Manpower was 99,14%, Performance Efficiency was 61% Quality Rate was 99,29% and ORE of 57,08%. Then an analysis 4M1L Fishbone causes the low ORE value and an analysis of the losses experienced. Next, TPM OFFICE analysis was performed on the company's condition. From the results of the analysis the proposal is in the form of Productivity (P) based on manpower with the proposed assignment of employees, Quality (Q) based on the quality of the goods with the proposal to make a checksheet, Delivery (D) based on the delivery of goods with the proposal to make a delivery schedule for goods, Safety (S) with the proposal the creation of a K3 team and its jobdesk, Moral (M) based on discipline with the proposed employee training.

Keywords– Overall Resource Effectiveness, Fishbone, Total Productive Maintenance