

## ***ABSTRACT***

*The wood drying process is an important step in producing furniture, aiming to reduce the water content to prevent problems such as shrinkage, cracks, and holes. Wood that is not optimally dried is susceptible to deformation, cracking, and pest attacks. Poor wood quality due to suboptimal drying can reduce aesthetics and service life, so it is very important to ensure that the wood is properly dried before being used in furniture making. CV Jati Antik, a company located in Klaten, Central Java, produces and markets various furniture products, including TV stand tables. However, this company faces obstacles in the production process identified through fishbone diagram analysis, where the level of defective products in production from 2021 to 2024 exceeds the established tolerance, which is 2%. The process of the problem occurs from the CTQ Process, namely in the drying process. The proposals given are in the form of designing a 4-meter rotation table to ensure that the wood dries evenly, designing an alarm system to maintain temperature stability in the range of 60-70 °C, using a timer to set the drying duration for 14 days. This study uses DMAI (Define, Measure, Analyze, Improve) analysis as a structured problem-solving approach and the Quality Function Deployment (QFD) method is applied at the improve stage.*

***Keywords - Defect, DMAI, QFD, Furniture, Fishbone Diagram.***