ABSTRACT

PT Central Georgette Nusantara is a company that produces georgette dyeing fabric as its main producer. Based on the production data of the PT.CGN company, there are still months that produce defective products above the tolerance limit so it is necessary to analyze using the DMAI (Define, Measure, Analyze, Improve) approach and fishbone diagram analysis and 5 why's which then obtained problems regarding the design of measuring instruments for mixing dyes and water which is the main problem in this study and obtained the purpose of this study which is to get the design of measuring instruments for mixing dyes and water so as to reduce the percentage of georgette dyeing fabric defect products. This research was conducted to design measuring instruments for mixing dyes and water using the QFD method. In the first step, concept development is carried out to find out the concept based on user needs, then concept generation to find out alternative choices obtained based on internal and external searches, then the last stage is concept selection to select options that will be further developed so that the design results are obtained in the form of measuring instruments for mixing dyes and water which are assumed to reduce the percentage of defective products by 5.3% in the production of georgette dyeing fabrics.