

## ABSTRACT

*The lontar leaf craftsmen at the Dukuh Penaban Lontar Library Museum face challenges in the process of making lontar paper, especially at the punching stage. The manual use of traditional tools (pirit) often causes production failures, such as inconsistent hole positions. This study aims to design a lontar leaf perforating tool to reduce production failures during the perforation process at the Lontar Leaf Library Museum in Dukuh Penaban. The design method used is Design Thinking, which includes Empathize, Define, Ideate, Prototype, and Test. The results of this study are the design concepts for the lontar leaf perforating tool, realized in 3D sketches using Autodesk Inventor. This tool design integrates a lever mechanism, three punching heads to ensure consistent punching results, permanent position markers, the ability to punch multiple lontar leaves simultaneously, and a waste collection container. Aluminum alloy was selected as the primary material. It is concluded that the designed tool concept effectively addresses the challenges faced by users during the lontar leaf punching process.*

**Keywords:** *Lontar Leaf Punching Tool, Design Thinking, User Comfort, Lontar Library Museum in Dukuh Penaban, Product Design.*