

## **ABSTRACT**

*In each cage there are chunks of wood that function as places where animals play and sharpen their nails, because in their natural habitat some animals, especially tigers are very fond of clawing wood that aims to sharpen nails to hunt as well as other animals such as sun bears and leopards, so garden managers animals provide wood so that the wild instincts are not too lost, from the problem the authors get a problem, after conducting surveys and interviews directly to the field, the authors got complaints from the zoo manager about replacing the chunks which are still using manual methods according to the manager this method is not effective because it takes too much time.*

*Departing from these problems the author then concluded to design a tool to facilitate the replacement of wood. The solution that the authors offer is a mini crane that is adapted to its designation, namely lifting chunks of wood with unloading systems, The concept of mini mini cranes is designed by considering wood placement, wood type, dimensions wood (length, diameter) and selection of colors and materials that are suitable as a complement, the design concept of this tool is explained in this thesis. The author hopes that this tool can be the best solution for zoo managers.*

*Keywords: Zoo, Design, Mini Crane*