VISVESVARAYA TECHNOLOGICAL UNIVERSITY,BELAGAVI– 590 018

A MINI PROJECT REPORT ON

" Hammering Machine "

Submitted By,

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CERTIFICATE

This is to certify that the Mini-Project entitled " **Hammering Machine**" has been Successfully Completed

By

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The bonafide students of **Department Mechanical Engineering, Alva's Institute of Engineering and Technology,** affiliated to VISVESVARAYA **TECHNOLOGICAL UNIVERSITY, BELAGAVI,** during the academic year 2020–2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been in corporated in the report. The report has been approved as it satisfies the academic requirements in respect of Micro-Project work prescribed for Bachelor of Engineering.

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ABSTRACT

This project aims at designing and fabricating an automated hammering machine that can perform hammering operations without the involvement of any human operator. This project is selected because no such machines are available in these industries. The introduction of an automated hammering machine in the industries will help the industries in prospering and it will make the operations safe and easy. Moreover, the project will have a greater impact on the metal industries. The machine will be capable of performing fast and accurate hammering operations with the help of a 16V battery. Mild steel is used for fabricating the machine. A large pulley and a shaft are connected with the help of a connecting rod. The spinning shaft will provide lateral motion to the rod. A mid-swinging arrangement is used for attaching the hammer and the connecting rod. A suitable bed will be developed for holding the workpiece. Solidworks is used for designing the machine. The main objective of the project is to develop an automated hammering machine with the help of a pulley, shaft, connecting rod, hammer, and 16V battery to provide ease for the hammering operations. Future work may involve the development of a body case for the machine