

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM-590 014, KARNATAKA



A PROJECT REPORT ON
“RUBBER TAPPING MACHINE”

Submitted in the partial fulfillment of the requirement for the award of

BACHELOR OF ENGINEERING
In
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By

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ABSTRACT

Rubber tapping is the process by which the sap (latex) is removed from a rubber tree without damaging the cambium of the tree. Tapping is the most costly activity in natural rubber production and the shortage of tappers is a serious problem in rubber plantations.

Rubber tree tapping is usually done using a manual type tapping knife. By using this knife, bark consumption and cutting depth cannot be controlled. To solve this problem, it is important to develop a mechanized tapping which can control bark consumption and cutting depth. The objective of this project is to fabricate and test the working of a tapping machine. In this, ultrasonic device is used to measure the depth of a bark and correspondingly tool feed is given. The tool motion is adjusted to make to &fro motion with the help of IR sensors. An effective method is going to be suggested by our group with the application of Low Frequency Sound Wave^o to improve crop management practices and proper incentive schemes that transmit some benefits.