DESIGN AND FABRICATION OF GROUNDNUT PLUCKING MACHINE

MINI PROJECT REPORT

Submitted to

ALVA'S
Education Foundation®

DEPARTMENT OF MECHANICAL ENGINEERING, AIET

Affiliated to

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
Karnataka State, INDIA-590018

In partial fulfilment of the requirements for the award of the Degree of

BACHELOR OF ENGINEERING
in
MECHANICAL ENGINEERING

Submitted by:

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Academic Year: 2023-24

CERTIFICATE

This is to certify that Mr. **NARAYAN V** and **PAIGAMBAR S NADAF** has completed the mini project on "**DESIGN AND FABRICATION OF GROUNDNUT PLUCKING MACHINE**" for VI Semester B.E. in Mechanical Engineering during the academic year 2023-24. The Mini project has been approved as it satisfies the academic requirements in respect of Mini project work prescribed for the Bachelor of Engineering Degree.

Project Guide

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ABSTRACT

Groundnut, a crucial crop, is traditionally harvested through manual plucking, which is labour-intensive and time-consuming. To overcome this challenge, this project proposes the design and fabrication of a small-scale groundnut plucking machine that can efficiently reduce the time and cost for farmers during the harvesting process. The project focuses on the design and development of a machine that can effectively pluck groundnuts directly from the ground, eliminating the need for manual labour. The proposed machine utilizes a chain-based mechanism to gently dislodge the groundnuts from the soil, reducing the physical strain on the farmer and improving the overall efficiency of the harvesting process. Through the implementation of this innovative technology, the goal is to provide a cost-effective and user-friendly solution that can be easily adopted by small-scale farmers, ultimately enhancing their productivity and profitability.