DESIGN AND FABRICATION OF GROUNDNUT PLUCKING MACHINE

MINI PROJECT REPORT

Submitted to

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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

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CERTIFICATE

Certified that the project work entitled **DESIGN AND FABRICATION OF GROUNDNUT PLUCKING MACHINE** is a bonafide work carried by **NARAYAN V (4AL21ME008), PAIGAMABAR S NADAF (4AL21ME011),** are bonafide student of Mechanical Engineering Alva's Institute of Engineering and Technology in partial fulfillment for the award of **BACHELOR OF ENGINEERING in MECHANICAL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI** during the year 2023–2024. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of Project work prescribed for the Bachelor of Engineering Degree.

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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.