VISVESVARAYA TECHNOLOGICAL UNIVERSITY

JNANA SANGAMA CAMPUS, BELGAVI - 590018

MINI-PROJECT REPORT ON

"DEVELOPMENT OF LOW COST SOLAR OPERATED PADDY HARVESTER"

Submitted In Partial Fulfilment of The Requirements for The Award Degree Of

BACHELOR OF ENGINEERING

IN

AGRICULTURE ENGINEERING

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DEPARTMENT OF AGRICULTURE ENGINEERING

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Accredited by NBA & NAAC With A+ Grade, Moodbidri-574225

2023-24

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This is to certify that the Mini-project work entitled **"DEVELOPMENT OF LOW COST SOLAR OPERATED PADDY HARVESTER"** is the bonafide work carried out by

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In partial fulfilment for the award of the Bachelor of Engineering in Agriculture Engineering of **Visvesvaraya Technological University, Belagavi** during the Academic year 2023-24. It is certified that all correction and suggestions indicated for internal assessment have been incorporated in report deposited in the department library. The project report has been approved as it satisfies the academic requirement in respect of project work prescribed for the said degree.

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ABSTRACT

In many rural and agricultural areas, especially in developing countries, traditional paddy harvesting techniques are labour-intensive, time-consuming, and costly. These manual methods often result in inefficiencies, post-harvest losses, and increased labour expenses. Although mechanized paddy harvesters could address these issues, their high costs, fuel requirements, and lack of accessibility for small-scale farmers present significant barriers. To tackle these challenges, there is a pressing need for a more sustainable, affordable, and effective solution. Therefore, the proposal is to develop a low-cost, solar-powered paddy harvester. This innovation aims to boost agricultural productivity, cut labour costs, and promote sustainable farming by using renewable energy. It seeks to make advanced agricultural technology more accessible to smallholder farmers, thereby enhancing food security and supporting economic growth in rural communities.