# VISVESVARAYA TECHNOLOGICAL UNIVERSITY

"Jnana Sangama" Belagavi -590018



#### A project report on

# "DESIGN AND FABRICATION OF REMOTE-CONTROLLED PESTICIDE SPRAYER MACHINE"

Submitted in partial fulfillment of the requirements for the degree of BACHELOR OF ENGINEERING

in

MECHANICAL ENGINEERING

By

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## ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

**MOODBIDRI-574225, KARNATAKA** 

2023 - 2024

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#### DEPARTMENT OF MECHANICAL ENGINEERING

#### CERTIFICATE

Certified that the project work entitled "DESIGN AND FABRICATION OF REMOTE-CONTROLLED PESTICIDE SPRAYER MACHINE" is a bona fide work carried out by

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Engineering Degree.

Signature of the Project Guide

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#### ABSTRACT

The population of India is growing quickly, and more food needs to be produced in order to feed everyone. However, this needs to be within everyone's budget. India still practices traditional farming methods (small, medium Farmers), although the country's industrial and service sectors have grown more rapidly than its agricultural sector. A certain amount of equipment has been produced to help mechanize agriculture in India. Among them is the pesticide sprayer, which is used by conventional farm laborers either with an electric pump or by carrying a backpack-style sprayer that involves physical labor. In order to enhance the agricultural system and lessen the strain on farmers and the issues related to backpack sprayers and also health issues, new equipment is being developed. The system integrates advanced technologies such as IoT (Internet of Things), and automation.

The remote-controlled pesticide Sprayer machine is equipped with a user-friendly interface that allows farmers to remotely manage and monitor the system from their smartphones. The machine employs Bluetooth technology Through this innovative approach, it minimizes overuse of pesticides and water, reducing environmental impact and operational costs.