

**Project report on**  
**FABRICATION OF BATTERY OPERATED**  
**AGRICULTURE WEED REMOVER**

A project report submitted in the partial fulfillment of the requirement for the award of  
degree of

**BACHELOR OF**  
**TECHNOLOGY IN**  
**MECHANICAL ENGINEERING**

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**AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY**

**DEPARTMENT OF MECHANICAL ENGINEERING**

(Approved by AICTE, and permanently Affiliated to JNTUK-KAKINADA,AP) TAMARAM

(VIL & PO), MAKAVARAPALEM (MD)

VISAKHAPATNAM (DISTRICT-531115)

**(2015 – 19)**

# AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE and permanently Affiliated to JNTUK-KAKINADA,AP)

(An NBA Accredited Institution)

TAMARAM (VIL&PO),MAKAVARAPALEM

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## DEPARTMENT OF MECHANICAL ENGINEERING



### CERTIFICATE

This is certify **KARRI SRAVANKUMAR (15811A0364)**, **MAKIREDDY ATCHIYYAIDU (15811A0375)**, **MUTHAYALA MAHESH RAM (15811A0388)**, **KARRI BHASKAR REDDY (15811A0363)**, engineering have done their project work on **“FABRICATION OF BATTERY OPERATED AGRICULTURE WEED REMOVER”** at AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY, Narsipatnam in partial fulfillment of the requirements for the award of degree of **“Bachelor of technology”** in **“MECHANICAL ENGINEERING”** to JNTUK University , during the academic year 2015- 2019. The result embodied in the project report has not been submitted to any other institute for the award of any degree.

Internal Guide

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## ABSTRACT

The weeder is one of the many farm mechanization in promoting soil tiller and weeders especially considering the fact that the majority of farmers are having small land. It reduces human effort. The implements are mostly self-guided. Working of the project is based on crank lever mechanism which moves the blades. It is a great saver of time and expenses on field operations. Thus it will have very effective uses on the farm field either for tiling as well as for weeding. Development of high capacity energy efficient versatile machines and combination machinery for increased labour productivity, reduced unit cost of operation, improved timeliness of operation and suitable for custom hiring. Weed remover reduce human effort. The implements are mostly self-guided. This reduces human drudgery to a great extent. The comparative higher output of operation by the soil tiller and weeders as compared to humans reduces the operational time and achieves timeliness in operation. The maintenance of the weeder is easy. It is ideally suited for mechanizing small farm holdings which account for 80 % of the farm holdings of the country. Cost wise the weeder should be an obvious choice of smaller farmers, if they are intending to have a DC power source for farm-operation. The weeder reduce the drudgery of collecting the waste grass between crops in the field during operations as compared to operations by Bullocks and human effort. The weeder makes the manual of that wastage grass by cutting it in small piece and thoroughly mixed with soil during operation.

Keywords: Battery(12v), Motor(12v dc),Switch, Crank lever mechanism.