

FABRICATION AND DEVELOPMENT OF WHEEL OPERATING SPRAYER

A project report submitted in partial fulfillment of the requirements for the award of
the

Degree of

BACHELOR OF TECHNOLOGY

IN

MECHANICAL ENGINEERING

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CERTIFICATE

This is certify that the project work entitled “**FABRICATION AND DEVELOPMENT OF WHEEL OPERATING SPRAYER**” is a bonafied record of work done by **K.NAGA DURAGARAO (14811A0362)**, **B.S.V.DILEEP (14811A0318)**, **B.SATISH KUMAR (14811A0311)**, **K.N.M SAI YADAV (14811A0351)** in partial fulfillment of the requirement for the award of Bachelor of technology in **MECHANICAL ENGINEERING** by Jawaharlal Nehru technological university, Kakinada during the year 2014-2018.


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EXTERNAL EXAMINER

ABSTRACT

India is a land of agriculture which comprises of small, marginal, medium and rich farmers. Small scale farmers are very interested in manually lever operated knapsack sprayer because of its versatility, cost and design. But this sprayer has certain limitations like it cannot maintain required pressure; it lead to problem of back pain. However this equipment can also lead to misapplication of chemicals and ineffective control of target pest which leads to loss of pesticides due to dribbling or drift during application. This phenomenon not only adds to cost of production but also cause environmental pollution and imbalance in natural echo system. This paper suggests a model of manually operated multi nozzle pesticides sprayer pump which will perform spraying at maximum rate in minimum time. In Normal Spray pump work on electrical battery operated or using manpower to operate lever for spraying pesticides. In Push operated spray pump a one trolley is there in which specially mechanism for translating rotary motion into reciprocating motion this reciprocating motion used to operate the pump lever. This lever operates pump increase the pressure of pesticides and pesticides will be sprayed. It is a device which is used to sprinkle pesticides without more efforts.