

PEDAL POWERED WASHING MACHINE

**A REPORT FOR PROJECT SUBMITTED IN PARTIAL FULFILMENT OF THE
REQUIREMENT FOR THE AWARD OF DEGREE OF**

**BACHELOR OF TECHNOLOGY
IN
MECHANICAL ENGINEERING**

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BONAFIED CERTIFICATE

This is to certify that **N.J.SAI KIRAN (Regd No. 14811A0383)**, **M.HARIKRISHNA (Regd No.14811A0374)**, **S.M.K.N GUPTA(Regd No.14811A3B7)**,**S.S.HARSHA VARMA(Regd No.14811A03A9)**, **U.DURGA RAO(Regd No.14811A03C7)** of final year engineering have done project work on "PEDAL POWERED WASHING MACHINE" at **AVANTHI INSTITUTE OF ENGINEERING AND 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 2014-2018.

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ABSTRACT

Pedal power is the transfer of energy from a human source through the use of a foot pedal and gear system. This technology is most commonly used for transportation and has been used to propel bicycles for over a hundred years. Less commonly pedal power is used to power agricultural and hand tools and even to generate electricity. Some applications include pedal powered laptops, pedal powered grinders and pedal powered water wells. This project concentrates on pedal powered washing machine. The basic Principle of this machine is compound gear system; the concept of this Mechanism is that the pedaling is converted into rotary motion. The present work is an attempt to develop a concept to make a cloth washing mechanism which can meet out the requirements of above mentioned 70% population of the nation. Working principle of this concept is no more different from available similar type of machine with a difference driving mechanism of the machine. The objective of bringing down the initial cost and operating cost of washing machine is almost achieved in present work within the limitation of work as mentioned. The main aim is to reduce the human effort for provides the light washing in the rural and dark areas which are very far from the electricity and development. In our country where approximately 70% population is living with very poor economic status, those people cannot have a washing machine because of cost constraints and unavailability of electricity due to any reason according to survey 2013-2014, there are approximate 25722 villages are still not electrified, where 400 million people are suffering from this problem.