

FABRICATION OF PEDAL OPERATED CENTRIFUGAL PUMP

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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An NACC & N.B.A. Accredited institution, Approved by AICTE, Affiliated to
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CERTIFICATE

This is certify that the project work entitled “**FABRICATION OF PEDAL OPERATED CENTRIFUGAL PUMP**” is a bonafide record of work done by P. VARPRASAD(15815A0343),KVINAY(15815A0325),DNAGESWARARAO(15815A0309), M MOHAN RAO(15815A0337) 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 2015-2018.

PROJECT GUIDE

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ABSTRACT

The design and construct a pedal operated water pump which will be used in small scale irrigation, garden irrigation and pumping out water from a reservoir. The pedal operated pump can be constructed using local materials and skill. The water pumping system includes a centrifugal pump operated by pedal power. The pump stand includes housing in which feet pedal and a rotating drive shaft will be attached. It works on the principle of compression and sudden release of a tube by creating negative pressure in the tube and this vacuum created draws water from the sump. This bicycle pedal operated pump pumps water at 25-30 liters per minute from wells and boreholes up to 23 in feet depth. It provides Irrigation and drinking water where electricity is not available. It can be built using locally available materials and can be easily adapted to suit the needs of local people. It frees the user from rising energy costs, can be used anywhere, produce no pollution and provide healthy exercise.