

“FABRICATION OF FOUR WAY HACKSAW MACHINE”

A project report Submitted

In partial fulfilment of the Requirements for the award of the degree of

BACHELOR OF TECHNOLOGY IN

MECHANICAL ENGINEERING

BY

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CERTIFICATE

This is to certify that the project report is entitled “**FABRICATION OF FOUR WAY HACKSAW MACHINE**” was carried out by **P.PRUDHVI RAJ(16815A0332)**, **J.MAHESH (16815A0313)**, **K.GANGADHAR(16815A0323)**, **K.DURGA ADINARAYANA (16815A0341)** in partial fulfilment of the requirements for the award of the “ **Degree of Bachelor of Technology in MECHANICAL ENGINEERING** ” To JNTUK University at **AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY** , Narsipatnam during the academic year 2015-2019

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ABSTRACT

This project work and effort has been made to develop a modernized four way hacksaw machine and less stress full operation for cutting wood, metal and plastic materials. The aim of this work is to develop a hacksaw machine that will use a less effort to produce uniform cutting of PVC pipes ,metals ,wood. It is also done to show the performance difference between hand driven, pedal drive and four way hacksaw machine. This model implies conversion of rotary motion of crank to reciprocating motion of hacksaw blades, which is done by using Scotch Yoke Mechanism. This motion is used for hacksaw machine, in this model we can operate four hacksaws at same time. This machine will also done cutting of different materials, hence the purposed model of hacksaw machines will be welcomed by many industries due to compactness and efficiency. To achieve this goal the four way hacksaw machine is developed