**Hand Operated Beam Hexa Machine**

**Abstract:**

The pedal powered hacksaw has a very simple mechanism operated with pedal by pedalling the wheel rotary motion is converted into to and fro motion of the cutting tool. The aim of this paper is to cut materials like wood, plastic etc., with less effort and quickly. That is by connecting a hacksaw to the pedal of a cycle and pedalling the pedals the forces are transmitted and get the work done. The size and shape of the pedal power hacksaw setup is similar to the cycle. It is like a cycle added with a bed for the cutting tool. It can be used in the place where electricity is not available. As it required very low pedalling power it is operated at very low power. In this pedal powered hacksaw connected directly to the pedal .While peadlling directly rotary motion of the pedal is converted into to and fro motion of the cutting tool. The end of the cutting tool is placed on the workpiece. By the to and fro motion of the cutting tool action is done on the work piece .In this way by applying force on the pedal of the cycle the cutting tool undergoes to and fro motion and we get the required work done. Keywords: pedal power hacksaw machine, peddle power, bearings, welding, time and cost saving.