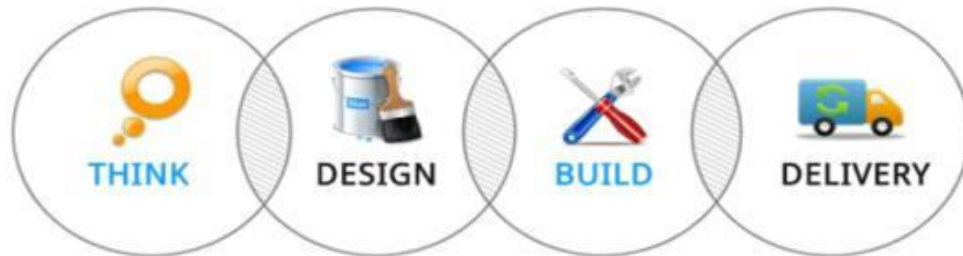


# PEDAL OPERATED PROJECTS 2018 – 19



**TECHNOFIST** a leading student's project solution providing company established in Bangalore since 2007. With perfect infrastructure, lab set up, Work shop, Expertise faculties make us competitive service providers.

Here is the list of project titles 2018 and 2019.



**DOORS OF TECHNOLOGY:**

- AGRICULTURAL BASED PROJECTS
- AUTOMOBILE BASED PROJECTS
- COMPOSITE MATERIAL BASED PROJECTS
- INDUSTRIAL BASED PROJECTS
- MECHATRONICS BASED PROJECTS
- SOLAR AND POWER GENERATION CONCEPTS
- AERONAUTICAL BASED PROJECTS
- PEDAL OPERATED BASED PROJECTS
- PNEUMATICS AND HYDRAULICS BASED PROJECTS



## 2018 - 19 PEDAL OPERATED BASED PROJECTS

### **TITLE – FABRICATION OF HYBRID MULTIPURPOSE PEDDLING MACHINE ( TPO 01 )**

In this context, we are developing a hybrid multipurpose BI – Cycle. Which consists of 3 different features in one cycle? We are developing Washing machine, Hacksaw machine and a flour mill in one bi cycle mechanism. In which floor mill and hacksaw machine can be disabled and enabled as per the need.

### **TITLE - PEDDLING WASHING MACHINE ( TPO 02 )**

A low cost, pedal-powered washing machine that is designed around readily available parts. Its innovation is its simple design and its use of inexpensive plastic barrels and bicycle components. It is reliable, easy to operate and uses no electricity. The parts are available locally, so it can be manufactured and repaired in the community without depending on imported goods.

### **TITLE - FABRICATION OF HYBRID WATER PUMPING USING PEDDAL ( TPO 03 )**

Powered water pump exist, but they are impractical in rural regions because running water and electric are expensive or unavailable , This hybrid water pumping machine is a low cost, pedal-powered water pump that is designed around readily available parts. Its innovation is its simple design and its use of inexpensive plastic barrels and bicycle components. It is reliable, easy to operate and uses no electricity. The parts are available locally, so it can be manufactured and repaired in the community without depending on imported goods.

**TITLE - FABRICATION OF PEDAL OPERATED REAL TIME HACK SAW MACHINE  
( TPO 04 )**

Sawmill is an instrument or equipment used for cutting wood, plastic or any soft materials. It's one of the ancient equipment and required a kind of mechanical or physical energy to operate it. Here in our project we are developing a pedal operated real time hacksaw machine to minimize the human effort. We use a real time bi cycle which is attached to hacksaw machine. This reduces the human effort and as we are using bi cycle, it in turn increased your health level as by cycle driving is a mean for burning fat and a good physical exercise. The sawing machine is a machine tool designed to cut material to a desired length or contour. It functions by drawing a blade containing cutting teeth through the workpiece.

**TITLE – PEDAL OPERATED HACK SAW AND BOTTLE SHREDDING MACHINE  
( TPO05 )**

Pedal powered hacksaw and bottle shredding machine is a machine which can be used for industrial applications and Household needs in which no specific input energy or power is needed. This project consists of a crank and slider mechanism. In the mechanism pedal is directly connected to the hacksaw through crank and slider mechanism for the processing of cutting the wooden blocks, metal bars, PVC materials. The objective of the modal is using the conventional mechanical process which plays a vital role. The main aim is to reduce the human effort for machining various materials such as wooden blocks, steel, PVC etc.

The power machine, which runs on human power, works on the principle of the conversion of rotational motion to oscillatory motion. Importance of this project lies in the very fact that it is green project and helps us to reduce our electricity need.

Secondly, this cutter can be used and transferred to our working place easily.

**TITLE – PEDAL OPERATED FLOUR MILL ( TPO 06 )**

- In RURAL AREAS conventional method of grinding & chopping is done by using rural methods, if they have to grind large amount they have to travel a long distance to the flour mill for their needs. So we can use this to overcome this situation from the rural areas. It can be used in rural households for small amounts as they have to travel a long distance for the grinding purposes. It can be used for flouring of wheat grains, Ragi, Rice when attached to a flour mill. We can attach other applications like grinding wheel or for generating power etc.

**HEAD OFFICE**

TECHNOFIST- R T NAGAR

YES Complex, #19/3&4 , 2nd Floor, Dinnur Main Road , **R. T. Nagar** Post , Bangalore  
560032

Ph : 080 40969981, Mob : +91 9008001602

[www.technofist.com](http://www.technofist.com), [www.technofist.in](http://www.technofist.in) , [www.itcdp.in](http://www.itcdp.in)