

“FUEL LESS MOBIKE”

(Sponsored by Karnataka State Council for Science and Technology (KSCST), Bangalore)



A project report

*Submitted in partial fulfillment of the requirement for the award of
Degree in Electrical and Electronics Engineering VIII semester of the Visveswaraiah
Technological University Belgaum.*



Submitted by

PROJECT ASSOCIATES

1. MANOHARA. G H
2. Md TANVEER
3. BHARATH.T A

USN NUMBERS

1sb06EE028
1sb07EE406
1sb06EE009

**Under the guidance of
Prof. Pradeep B Jyoti
HOD of EEE Dept
SSEC**

**SHIRDI SAI ENGINEERING COLLEGE
Sai Leo Nagar, Samandhur post, Anekal Bangalore-562106
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
2010-2011**

ABSTRACT

Around 8000BC man made an important invention of wheel which today led us in leading a ease life style the invention of wheel casted in development of present day technology. The man first experimenting with wheel by attaching it to a slab to carry the goods and transporting to different places. Later he replaced the human power by caster and today it is been driven by engine. Today at modern era the tremendous development in science and technology made human to explore the earth and stepped on moon. Our idea is to make the technology for transportation to dazzle.

In India last 20 years there is a vast increase in presence of vehicle. The present vehicle in the whole planet is driven by fuel power engines. The fuel also includes petrol, diesel, electric and latest hydrogen. The fuel petrol, diesel pollutes the atmosphere. The pollution by driven vehicle shares depleting of ozone layer. The petrol and diesel are exhaustive, price rise an a good example. Not only is the above point maintenance of vehicle bit tougher.

Our scenario is to replace the present fuel engine by fuel less engine yes we have read it right. The fuel less engine requires minimal power at starting stage. The most significant feature is to eliminate pollution.

The working is an actually a recycling of the power consumed. This system is a closed loop. The power consumed is once again recharge to the battery by a dynamo. This will reduce the consumption of energy from external source.

The rotor is just opposed at center by surrounded by magnetic poles. The motor is (Starting torque) driven using battery. The first half rotation is guided by the battery rest the next half cycle is guided by magnet surrounded by rotor. The second half cycle is connected to a dynamo to fed back the power consumed from the battery. This principle will know ever discharge the battery. For synchronize the speed is done by connecting voltage regulator. The voltage regulator will control the speed of the engine. The advantage of connecting dynamo is to generate back the power consumed. The dynamo is connected to the rotor.

Our idea will change the present trend in market to replace the engine running on fuel. This project is modified of present electrical driven engine. From battery input circuit is connected for stepping up the voltage. The input circuit will feed the voltage to the coil to get the maximum torque. The engine weight is lighter as compare to present engine in the market.

The engine is connected to a special designed bike. The bike demonstration will show how fuel less engine works. The design of the bike is completely done by us. The fuel less bike is less economical and lighter than the present bike in market. We are confident that this project will help in developing present technology.