

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELGAUM-590 002**



**A Project Report on
“Innovative power generation scheme”
(SPONSORED BY KSCST)
Project Proposal Reference Number: 37S0719
Submitted To
Visvesvaraya Technological University, Belgaum.
In partial fulfillment of requirements for the award of degree**

**BACHELOR OF ENGINEERING IN
ELECTRICAL & ELECTRONICS ENGINEERING**

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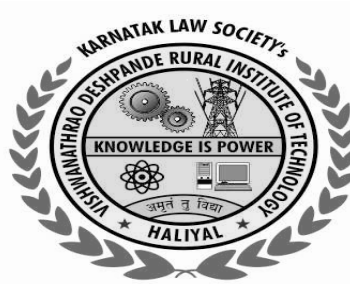
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ABSTRACT

Energy is the prime factor for economical development of country. Coal and other fossil fuels which have taken 3 million years to form, are likely to deplete soon. For sustainable power we need to use renewable energy resources. Renewable energy is obtained from sources that are essentially inexhaustible. It includes hydro power, wind power, solar power etc. Most important feature of renewable energy is that it is very clean and does not pollute the environment. This project is mainly based on the wasted water pressure in the agriculture field.

Hydro is a renewable energy source and more cost effective than many other renewable source of energy such as photovoltaic. Pico hydro term used for hydro electric power generation under 5 KW. It is useful in small remote communities that require only a small amount of electricity. For example to power one or more fluorescent lamp and TV or a radio. This project deals with the use of wasted water pressure in agriculture sector.

An attempt is made here to demonstrate the use of wasted water pressure to rotate the turbine during the time of irrigation. Here this turbine is coupled with dynamo or alternator to generate a small amount of electric power. This small generated electric power is utilized by farmer under emergency conditions.