Project Report on

"Micro-Hydro Power System"
(Sponsored by KSCST)

Submitted to

Visvesvaraya Technological University
Jnana Sangama, Belgaum.

In partial fulfillment of the requirements for the award of Degree in
Bachelor of Engineering in Mechanical Engineering

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2013 - 14

ABSTRACT

Hydro power generation is major process to get the electric power. Usually in hydro power stations, the power generation takes place when the water falls from greater height. Here the used water is left out which has the potential in it to be used again, so by installing suitable micro hydro power set up under suitable environmental conditions the power can be generated in the range of 1W to 1kW. The generated power can be stored for future use or it can be directly supplied to the communities. Micro hydropower is generated through a process that utilizes the natural flow of water. There is no direct emissions resulting from this conversion process, there is no harmful effects on the environment, if planned well, thus supplying power from a renewable source and in a sustainable manner. Micro hydropower is considered as "run-of-river" system. This adding to the potential economic benefits of micro hydropower is efficiency, reliability, and cost effectiveness. Hydropower on a small scale, or micro-hydro, is one of the most cost-effective energy technologies to be considered for rural electrification in less developed countries. The large hydro schemes often involve the construction of major dams and the flooding of whole valleys, micro-hydro is one of the most environmentally benign energy technologies available. The technology is extremely robust and system scan last for 50 years or more with little maintenance.